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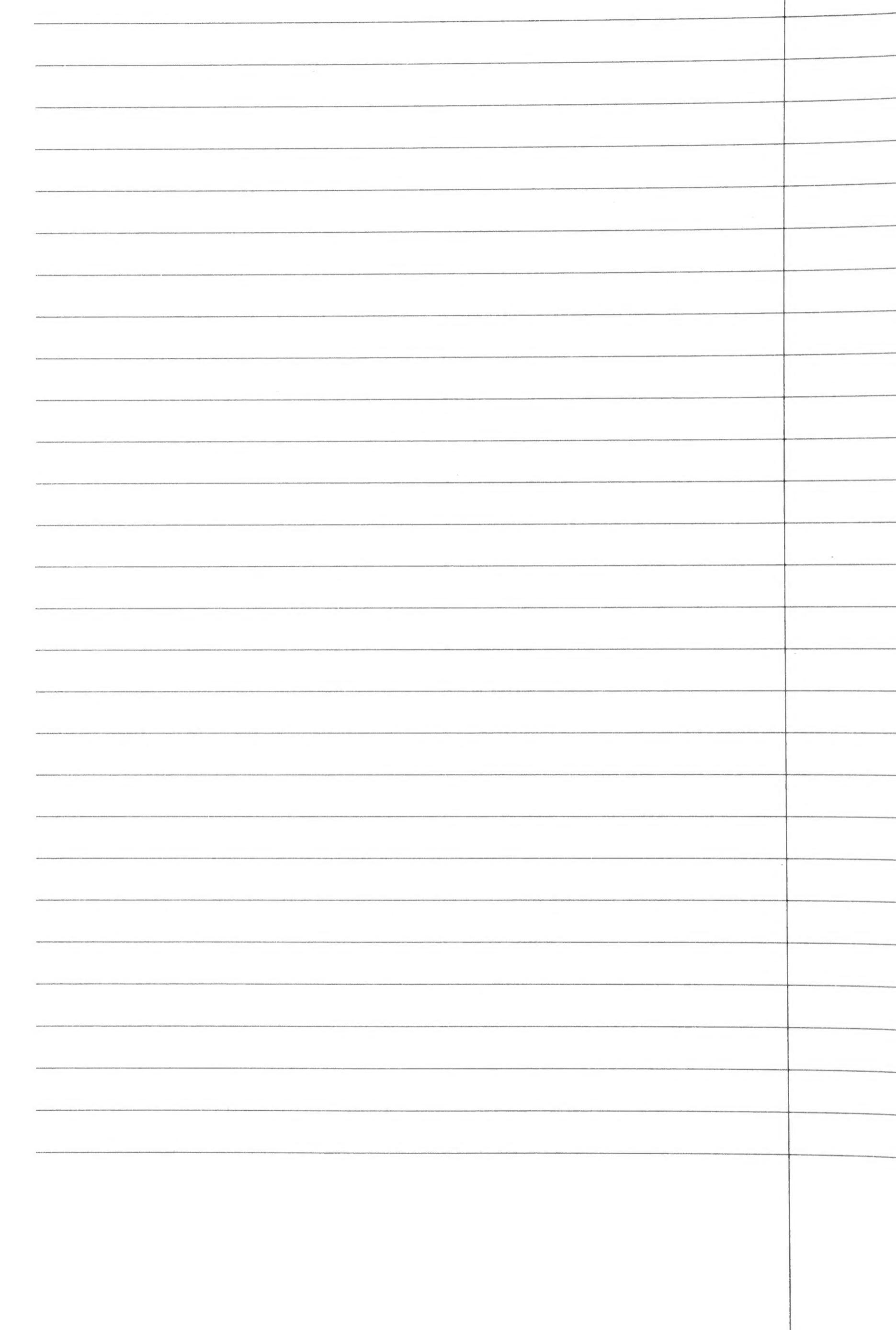


# General Index

J. I. Smith

1990-91

Journal



J. I. Smith

Journal

1990

Calif: Big Creek Reserve, Monterey Co.

Russell Tree Reservaton, Contra Costa Co.

Sagehen Creek Field Station, Nevada Co.



th, 9

## Journal

136

1990

~~Landels-Hill Big Creek Reserve 5 mi N of Lucia Monterey California Coffeetown~~

25 Feb 1514 hours--left Albany at 110 hrs. Drove 180 S to 980 hit quake construction detour, got onto 880 S to San José took 175 to 101 S. Had heavy traffic all the way. The reserve is located 5 mi south of Esalen Inst on highway 1 (3rd bridge past Esalen) Beautiful sunny day, light wispy cloud cover (30%) T = ~50°F windy is 3-5 mph out of the NW. From Albany to Big Creek is 166.4 miles. Stopped for lunch in Carmel, at 1240. Ate at Rio Grill at corner of Highway 1 and Rio Road. A bit pricy (\$7 for turkey sandwich) but had nice wine list. Fueled up at Arco station just E of Rio Grill. Big Rio Rd is one road S of Carmel Valley Road. Have heard ♂'s singing ad chipping in party lot by guest register. 1851 hours saw ~6 sparrows they were in steep gullies in Bacharia also in association with >6 Fox Sparrows. The sparrows distressed called (Fox Sparrows "chacking" and Song Sparrows "chipping"). Also Ruby-crowned Kinglets "Tit-tit--je-diting". Saw Numerous >10 Brown Creepers and heard many (>10) Winter Wrens. Saw 2 of the wrens, they were down near the creek. The sparrows were behaving strangely in response to playback. They "chimed" but hardly any ♂'s came flying in to give full song. It seemed like late-summer behavior. Lots of "chipping," not much full song. Heard most full song down in gully by John's House. It surprises me that there are no sparrows near the creek, they all seem to be up on the steep sides near the ridge tops where the vegetation is low (~46') Bacharia and grasses. There are willows near the creek.



17, J  
1990

Journal

137

~~Landels-Hill Big Creek Reserve, San Joaquin, Monterey Co., Calif. off state Hwy 1, 10 miles S of Lucia, Monterey Co., Calif. off state Hwy 1, 10 miles S of Lucia, Monterey Co., Calif.~~

25 Feb

John has allowed me to stay in the trailer. It is quite nice (clear and bright, smells fresh) Has gas stove, oven, sink with running water all lights. 2 beds and trundle, refrigerator, table, also has a bathroom sink. Found a shower near the workshops. It is a wood platform like the one Tim built for Mary in their basement. There is an outhouse just up the grade. (S) of party lot near the party area for camp vehicles. A Black + White Cat just tried to jump into the trailer thru the front door window - scared me. The trailer window dimensions are 12' x 7'. Should remember paper towels next time. The weather was beautiful, sunny today, pink sunset lit the Ventana peaks. The temperature was perfect for jeans and long-sleeved shirt. The night is crisp and I hear a Pygmy Owl calling 5 ad upgrade from the trailer. The Varied Thrush were flocking up slope with Steller's Jays. Saw orange juice near the creek and judge.

Species List

Sharp-shinned Hawk - 1 200 ft elev in Monterey associations

Red-Tailed Hawk - 2 soaring over road (Hwy 1)

American Kestrel - 2 along highway on wire

Anna's Hummingbird - 2 near creek

Belted Kingfisher - 1 on creek

Acorn Woodpecker H.O. Pygmy Owl - species Act.

Black Phoebe - 1 on creek

Scrub Jay - 2 up slope 200 ft

Steller's Jay - 4 up slope

Ruby-crowned Kinglet - 6 all over



with, J

1990

# Journal

138

Lands End Big Creek Reserve, Spring Gulch, Monterey Co., Calif. off Hwy.

25 Feb

## Species List (cont.)

Hermit Thrush - 1 near creek

(outdoor) Winter Wren - 2 near creek

Varied Thrush - 6 up slope ~200ft

American Robin >10 up slope

Song Sparrow - 2, 40-6 up slope

Dark-eyed Junco - 6 "Oregon" very pink sides. Mosty near creek but also up slope

Golden-crowned Sparrow - 6 up slope

Fox Sparrow - 10 up slope

26 Feb 0720 hours in heavy fog, T = ~40°F, Breezy 5-10 mph. I drove

2.1 miles along road from trailer, heard a saw many sparrows.

Approximately 2 sparrows every 30-35yds along the road. The habitat  
is thick Baccharis, milkweed, California sage some Ponderosa

Pine. Drive to triple fork in road. Take road N to Faner's

Also thick with sparrows--steep habitat, thick Baccharis. Fox

Sparrows prevalent at border - Crowned Sparrows. This road

is good sparrow hab. fat up to point where road forks. The

NW fork goes to Faner's (caretakers) the main road stays to

the left. Sparrows are present along the road but it is

patchy -- beautiful ocean view. Sparrows are present all

the way to the end of reserve property <sup>1.35</sup> ~~about~~ miles past road

to Faner's. At the end of the property there is a small

ranch w/ sheep and a horse the road winds down to

Highway 1. There is a locked gate, 0.4 miles beyond the

Farm. The habitat past Faner's is grassy patches, thistles  
with patches of Baccharis + willows in the gullies.



10th, 1990

Journal

139

Lantern Hill Big Creek Reserve, San Lucia, Monterey Co., Calif. off elev.

26 Feb

1300 hours fog lifting from lower elevs but still huge bank of clouds over head. Headed down road toward ridge camp (the Spurk at the triple fork). For about 1 mile down the road the habitat is much Boschalis, Posoak Oak at good sparseness. About 1½ miles the elevation increases it gets oakly there are some sparseness but not numerous. 2½ miles there are oaks, Titmouse and Varied Thrush no sparseness. No more sparseness heard up to Ridge camp. Saw lots of coyote scat and tracks. 1730 hours drove to N side of reserve. The road is impassable, I heard 3 ♂'s singing it is over Bacharia (Chrysanth) at P.O.! Steep but passable.

Species List

Western Gull - 5 off coast

Red-tailed Hawk - 3 soaring overhead

California Quail - 6, however more in Chapparel Oceanside

Band-tailed Pigeon - 2 Chapparel

Pygmy Owl - H.O. in response to my whistle

Swift sp. off coast oceanside

Anna's Hummingbird - 3

Allen's Hummingbird - 1 Chapparel just below ridge top - Oaks

Belted Kingfisher - on creek

Northern Flicker - 10, heard many all over

Acorn Woodpeckers - 3, heard many especially at ridge top

Hairy Woodpecker - ridge top camp

Scrub Jay - 6, Many in Chapparel

Steller's Jay - 12, mottled my pygmy owl call

Plain Titmouse - 3 ridgeline

Wrentit - 20, in Chapparel



19th, 8  
1990

Journal

140

Lands-end Big Creek Reserve, San Lucia, Monterey Co., Calif. At elev.

26 Feb

Species List (cont.)

Chestnut-backed Chickadee - 1 Seaside Chapparal after Fairies

Bush-tits - 6 coastal race

Brown Creeper - H.O. in Redwoods

Horned Wren - 1 in Thistle patch just beyond Road to Fairies

Bewick's Wren - 6 in Baccharis

Ruby-crowned Kinglet - 3

Hermit Thrush - 3 ridge tops or road

Varied Thrush - 20 numerous in oaks near ridge

American Robin - 6 all over

California Thrasher - 2 in Baccharis

Hutton's Vireo (?) - in Madrone near ridge

Rufous-sided Towhee - 6, heard many

Brown Towhee - 6, heard many

Savannah Sparrow - 1

Song Sparrows - >30

Dark-eyed Juncos - numerous > 40

Winter - <sup>crowned</sup> ~~grayed~~ Sparrow - 1

Golden-crowned Sparrow > 40 feeding on road all over

Fox Sparrow - 25

Lincoln's Sparrow - 1

(Arpodacus sp. - 6 ocean side)



ith, J  
1990

Journal

141

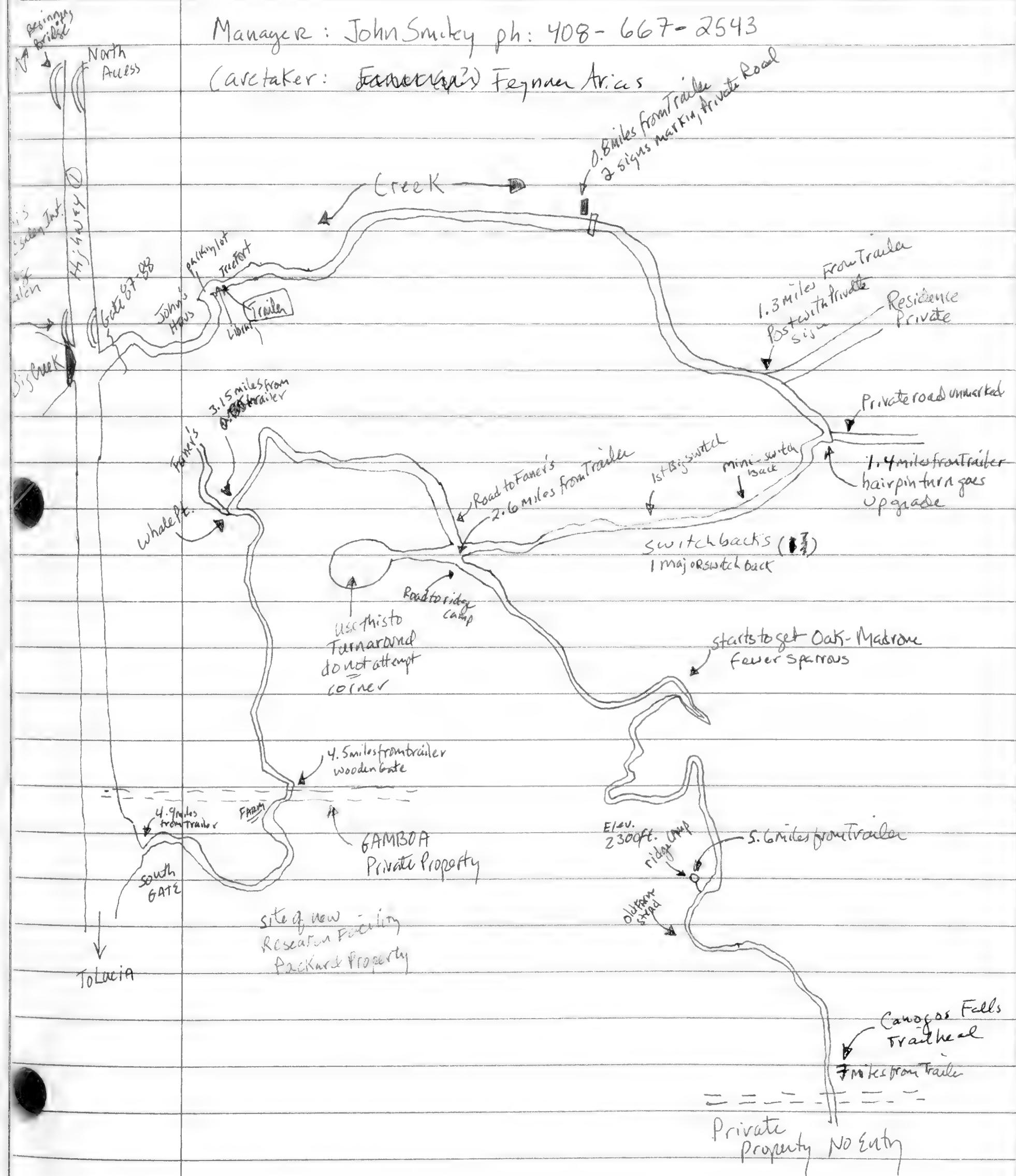
Landels-Hill Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif., elev.

26 Feb

Manager: John Smiley ph: 408-667-2543

(caretaker: Farmer (or?) Feynna Arias

0.8 miles from trailer, private road  
2 signs marking private road





th, 9  
1990

Journal

142

Lands End Big Creek Reserve, San Lucia, Monterey Co., California

27 Feb 0730 hours not too foggy this morning + mild 45°F, low wind (2-4 mph)  
The ♂ song sparrows are singing more than yesterday, but activity drops off dramatically at 10<sup>th</sup>. Set up road-nets along the road ~2 miles from John's house (main gate area). Caught Horned Thrush, 2 Golden-crowned Sparrows, 2 Wrentit & 1 Winter Wren: no Song Sparrows. The song sparrows tend not to fly across the road and even when I fish or we play back or fly by, don't do it if there is a lot of vegetation they do not fly near. At 10<sup>30</sup> hrs I gave up with road nets and decided I had to set the nets up near the Sparrows. The Sparrows also don't feed in the road so bait traps may not be effective. The hillsides are treacherous - steep & slippery. Poison Oak is the dominant vegetation. It is budding out right now so not too bad, but in a few weeks - Ouch! I tried laying a path into a sparrow hang-out it took me 1½ hrs of much hard work to get a net up but not very well. Lots of brambles and low lying vegetation to get stuck into it. I had the lower pole blistered and upper only 2 needed to last OK. I need a machete, some rope and stakes to help me get up and down there. I created a lot of disturbance while I did it and when I finished no Sparrows were in sight or sound. I need to get a set of coveralls and lace for my gauntlets and P.D. wax and maybe check out homeopathic remedies. The rain gear works well but boy it is like a sauna!

I drove back on 1 to 156 at Castroville to 101 N/ it is no longer or shorter than today 1 to 17 to 890, got a traffic back-up in Guadalupe took 3½ hrs trip.



ith, 9  
1990

143

# Journal

Big Creek Reserve, 5 mi N-Lucia, Monterey Co., Calif. 400 ft.

13 March

Left Albany at 10:37 am arrived Big Creek 1:40 pm.

Met John at Lab he was working on creating a computer data base of <sup>500</sup> plant species accounts at Big Creek. His daughter's name is Rosie. + will begin work on the Sanboa property. Paul (Kephart) is the caretaker he is involved in much grass breeding. trying to re-seed the Elk horn slough with native perennial. The Sanboa property has a watered out back, it is a headland <sup>400ft</sup> proposed site of new Big Creek Research facilities. There is a small spring running down the N side of the area, there are song sparrows in that area. The sparrows live to drainage of the spring. This is the best area for the study because it is flat and John + Fawn have made paths thru the poison oak. This week I noticed the Poppys were in full bloom as well as paintbrush. Last week with Kee we saw many chocolate lillies down by the Willow Creek site (*Douglas glauca*). Also irises blooming. Some redwoods also live the spring.

14 Mar

Nets set at 0700 hrs caught 1st Song sparrow at 0851 hrs in Westerly PO from Road.

Band no. 2031-08978 RD 6P FW BK ♂

Bid length 7.97

Tarsus 18.39

Bill depth 5.62

Middle toe 18.38

Bill width 4.53

Hallux 14.14

wing length 61.61

Brood patch no, shrt white feathered

2nd tip to 1<sup>st</sup> tip 8.35 <sup>tip 9.10m beyond to longest</sup>

age

wt 19.5g

Tail length 65.42

fat some fine

(weight 5.10 x 6.50)



Mar 18  
1990

144

~~Big Creek Reserve, Gamtoos Property, 5 mi N. Lucia, Monterey Co., Calif. 100 ft~~

14 Mar 1045 hrs caught another sparrow in the west net

Band no. 2031-08979 BL FW PK GR

Bill length 8.92

Tarsus 18.16

depth 6.13

mid toe 19.86

width 4.91

hallux 14.61

wing length 59.86

Brood patch no

10<sup>th</sup> 2nd to 1<sup>st</sup> tip 10-14

age

Tail length 61.19

fat SH func

Molt - RF outer foxtail feathers

WT 20.00g

ad tail coverts

cloaca 4.27x7.62

15 Mar 0720 hrs caught ? ♀ FF in net N of west net in willow  
near draw

Band no. 2031-08980 GL FW BK OR

Bill length 8.95

Tarsus 19.30

depth 5.80

mid toe 18.32

width 5.04

hallux 14.66

wing length 61.08

Brood patch maybe lower belly

10<sup>th</sup> to 1<sup>st</sup> tip 11.64

age ♀ yellow at comissure edge

Tail length 63.15

fat SH func

Molt tail coverts

WT 21.08

caught tongue in net

cloacal 3.8x6.83

18 Mar Russell Fox Res., 2 mi NW Lafayette, Contra Costa Co., Calif. 1300 ft

Saw fss

Band no. 2031-08981 BL FW PK Lincoln's Sparrow

Wt. next molted  
in mouth  
in Milk Thistle  
patch

Bill length 7.81

Tarsus 15.48 fat

Bill depth 4.59

mid toe 19.39

WT. 16.5g

width 4.12 Tally 52.32

hallux 13.29

wing length 58.30

Brood patch

10<sup>th</sup> to 1<sup>st</sup> tip 7.03

age Bill molt, Tail molt



10th, J  
1990

Journal

145

~~Big Creek Reserve, San Lucia, Monterey Co., Calif. 700 ft.~~

20 Mar

Arrived Big Creek last night at 2230 hrs left Bay area at 1930 hours. Got up this morning at 0530 hrs, heard 1st sparrow at 0545 hours. Had Major Dickasons & Blueberry muffin for breakfast. Drove to ~~the~~ Packard property ( $\frac{1}{2}$  mi S of main entrance - site of new research facility). Set up nets along S trail and in the main center area (see map).

Saw  $\frac{RD}{FW}^{BK}$  / BK with unmarked under +  $\frac{BL}{FW}^{PK}$  for unmarked indiv.  $^R D$  / BK was in wood pick on W edge of coastal area.  $^B L$  / BK is in willow on N side of center area. Did not catch any song sparrows today! Agh! Caught several Hermit Thrush (2 had broodpatch w/ eggs in way, 1 had no broodpatch). 2 Allen's Hummers, 4 wrentits (1 w/ broodpatch), 1 golden-crowned sparrow, 1 Rufous-sided Towhee. I tried noisy owl, denny & SS Lucy but no luck. Got test response to "Chomping" on playback.

Saw Sharp-shinned in the early noisy fly in just N end land in large Bay tree on S side of coastal area. Saw many whale ~~sight~~ spots off the coast, Bay area moving North right now. Pygmy Owl flew in to my imitation sea sunset; it perched in large Sycamore on NE side of main area. The sparrows seem very unresponsive, only got reaction from birds in close partnership with another indiv.

The sightings went about their own business. John says spring water down to area. He said I could drink the H<sub>2</sub>O out of the ~~local~~ hole.



1990

JOURNAL

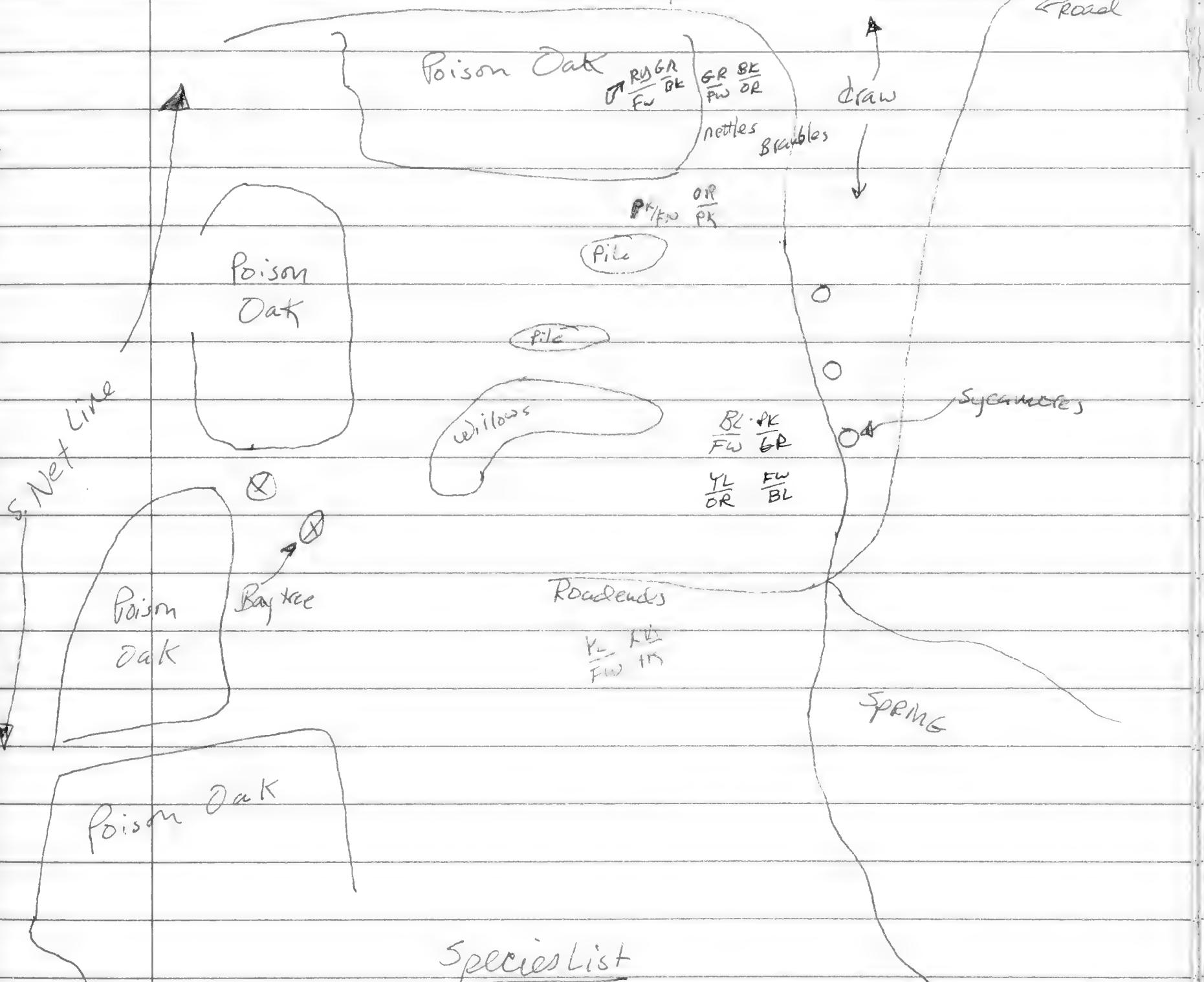
146

Bogachiel Reserve, Sm. N. Lucia, Monterey Co., Calif. 400 ft.

20 Mar.

Pacific Ocean wh  $\frac{B}{FW} \frac{L}{BK}$

sgate  
road



Species List

$\frac{BD}{FW} \frac{BL}{BK}$	1 dozen Gulls sp flying over ocean	2 Allen's Hummer	10 R. Kingbird
3 Turkey Vulture	Nuttall's Woodpecker (HO)	3 Hermit Thrush	
1 Sharp-shinned Hawk	4 Scrub Jays	Robin (HO)	
1 Red-tailed Hawk	6 Wrentit	Vireosp?	
5 California Quail	1 Chestnut-backed Chickadee	6 Dusky-crowned Wren	
1 Band-tailed Pigeon	1 Northern Flicker (HO)	20 Bush-tits	3 R.-S Towhee
2 White-throated Swifts (at Hdg)	2 House Wren	B. Towhee (HO)	
1 Anna's Hummer	6 Bewick's Wren (HO)	W-C Sparrow (HO)	
1 Golden-crowned Sparrow, (House Finch)	6 Song Sparrow	6 Fox Sparrow	



17, 9

1990

Journal

147

Bij Creek Reserve, 5 mi N Lucia Monterey Co., Calif. 400 ft.

21 Mar

Band no 2031-08982 ♂ BK/FW RD/  
BL

Bill length 8.57

Tarsus 19.10

depth 5.93

Mid toe 19.44

width 5.92

Hallux 14.10

wing length 62.93

Broodpatch no

10<sup>th</sup> to 1<sup>st</sup> tip 11.35

eye ad

Tail 62.14

fat S/L fine

wt 20.00g

Band no 2031-08983 ♀? BK/FW BL 9

BL 8.74

Tarsus 17.34

BD 5.71

Mid toe 18.43

BW 4.54

Hallux 14.15

WL 58.38

Broodpatch ~~no~~ no(♂ 2<sup>nd</sup> to 1<sup>st</sup> 8.91)

eye ad

Tail 57.31

fat S/L

molting one of mid tail 2<sup>0</sup>'s

wt 19.50g

Found another pair w of ♂ BK/FW, saw ♂ FW in spot where banded ♂ BK/FW, he was with a ♀ but couldn't see her. In addition there is another ♂ w of the pair w of ♂ BK/FW. There is also another ♂ S of BK/FW fat trail ends so probably won't be able to get to it. Heard lot sparrow at 0523 hrs today.

Caught 2 wrens (1 w broodpatch), 1 H-unit Thrush w/ broodpatch

Scott + Jenella come today at 12pm.



Feb 9  
1990

Yerme

148

Big Creek Res., S. N. Lucia, Monterey Co., Calif. 1300 ft.

22 Mar	2031-08984 ♂	YL FW	RD PK
	BL 873	Tarsos	1719
	BD 573	mid toe	1901
	BW 4.91	hallux	1361
	WL 6241	brood patch	✓
	2°TL 875	age	slig
	TL fell off	fat	slight
		wt	20 g

Scott + Penella came today for visit.

25 Mar Rummel Creek Res., 2 mi NW Lompoc, Santa Barbara Co., Calif. 1300 ft.  
0700 hours observed a copulation between unbanded pair at the middle of the nest patch.

	Band no 2031-08985	PK/FW	YL/BL
	BL 8.93	Tarsos	18.03
	BD 5.80	mid toe	18.20
	BW 4.98	hallux	13.79
	WL 58.59	brood patch	no
	2°TL 8.01	age	.
	TL 59.02	fat	slit
		wt	19.00 g
		Cloaca	5.49 x 2.95

Remember Band no. YL  
FW  
PK 2031-08907

BL 8.82	TL 63.64	Brood patch
BD 5.55	Tarsos 17.87	age
BW 4.99	Mid toe 19.40	fat some
WL 60.77	Hallux 13.21	wt 20.00 g
2°TL 11.24		Cloaca 4.48 x 6.14



10th J  
1990

Journal

149A

Russell Tree Reservation, Amherst, Massachusetts, April 13, 1990

25 Mar Band no. 2031-08986 BK/FW OR 1/2

BL 8.36

Tarsos 18.11

BD 5.91

Mid toe 19.58

BW 4.36

Middle 14.79

WL 57.05

Broodpatch no

2° TDI° 7.41

age S1+

TL 59.69

fat ↓

WT 19.5

Band no 2031-08987 wh/FW GR/BK

BL 8.32

Tarsos 18.95

BD 5.54

Mid toe 17.91

BW 4.80

Middle 13.62

WL 56.87

Broodpatch no

2° TDI° 8.75

age ~~18.00g~~

TL 58.38

fat #S1+

wt 18.00g

Band no 2031-08988 ♂ BK/FW RD/BK

BL 9.21

Tarsos ~~19.78~~ 17.80

BD 5.87

Mid toe ~~22.5~~ 20.03

BW 4.97

Middle 14.36

WL 58.28

Broodpatch no

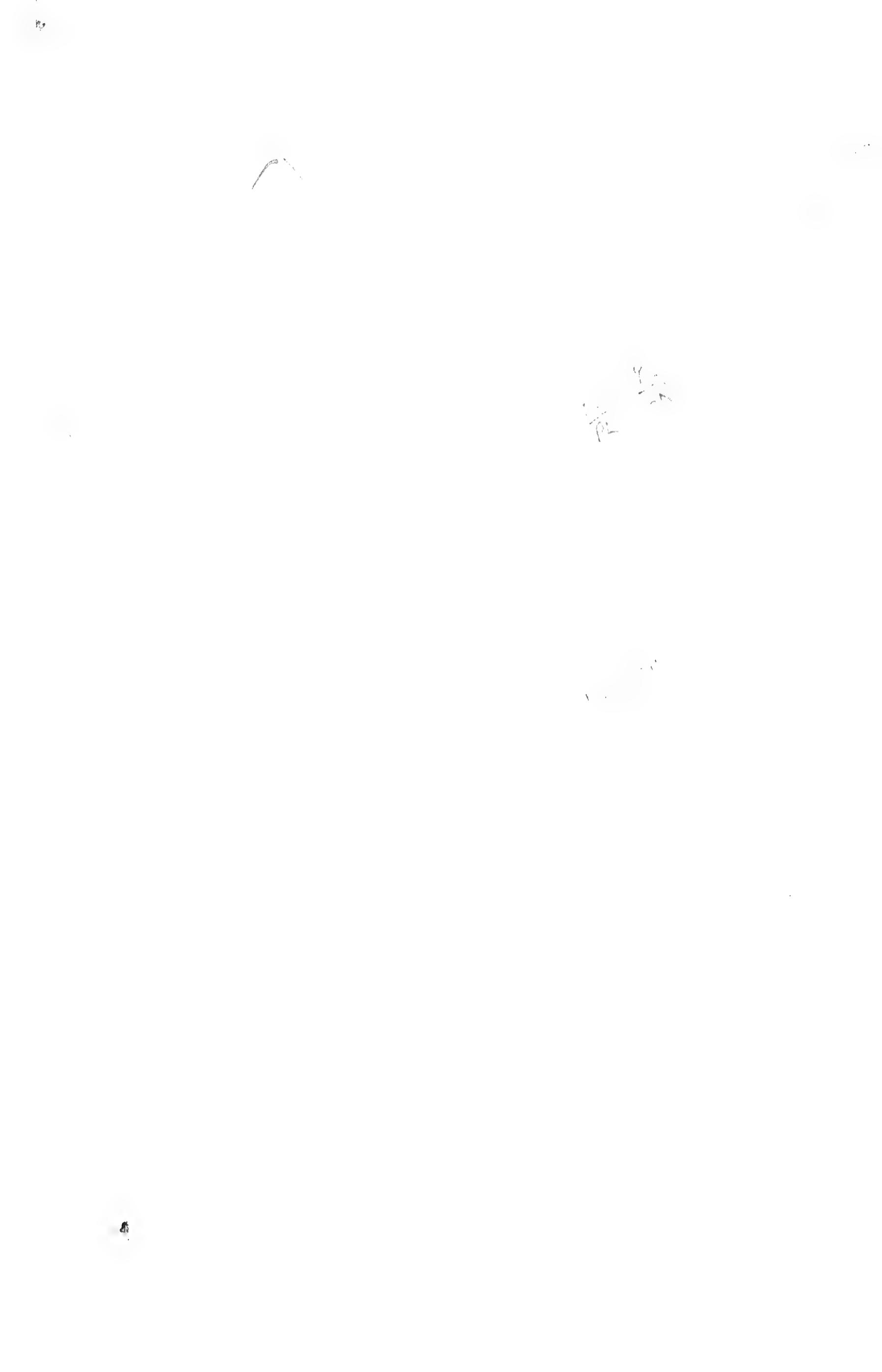
2° TDI° 12.04

age some

TL 60.24

fat ↓

WT 21.00g



2/18

1990

Journal

149B

Russell tree Res., 3 mi. NW Lathrop, Contra Costa Co., Calif. 1990.

25 Mar

RD  
FW

Wh GR  
BL  
FW

BE OF  
FW

BL YL  
FW BL

YL BK  
FW PK

BL BL  
FW BK

N  
↓  
This fl  
HMay

GR FW  
BL BK

HMay

willow

Turtle

11 May

11 May (details)  
W/B  
BK FW  
FW BK  
RD BL

FW  
PK

FW  
BL



uth. G  
1990

Journal

15c

~~Big Creek Reserve, S. N. Lucia, Monterey Co., Calif. 400 ft elev.~~

27 Mar Recapture  $\frac{FD}{PK}$   $\frac{62}{FW}$   $\frac{BK}{BK}$  ♂ 2031-08978

BL 8.35

Tarsus 19.17

BD 5.66

Middle 15.01

BW 4.36

Hindleg 13.89

WL 60.95

Broodpatch no

2° to 1° 11.57

age 51t

TL 61.83

sat ✓

wt 20.00g

cloaca 7.30 x 5.72

2031-08978<sup>91</sup>

$\frac{PK}{FW}$   $\frac{OK}{PK}$

BL 7.93

Tarsus 19.77

BD 5.76

Middle 16.95

BW 4.90

Hindleg 12.22

WL 60.26

Broodpatch

2° to 1° 11.75

age

TL 63.27

sat some

remarks - middle toe rt foot

wt 20.50g

has very short claw, removed

cloaca 2.92 x 3.90

pick for Lyme's Disease Study

28 Mar

2031-08992

$\frac{WB}{FW}$   $\frac{BL}{BK}$  ♂

BL 8.54

Tarsus 18.07

wt 20.00g

BD 5.72

Middle 18.77

age 6.07 x 3.55

BW 4.75

Hindleg 14.54

WL ~~\$7.44~~ 60.82

Broodpatch no

2° to 1° 12.21

age

TL 64.00

sat some



Ch. 1

Gorongosa

151

1990

Russell Game Reserve, Malwala Game Reserve, Gorongosa National Park, Mozambique

1 April 2031-03993 FPK PK ♂

BL 8.17

Tarsus 17.31

BD 5.64

Mid toe 17.91

BW 4.52

Hallux 17.39

WL 61.31

Broad patch

2° tail 11.62

age ad.

TL 60.67

CL 56

wt 100

Measure 5.35 x 1.01

2031-03994 ♀ FPK WKA

BL 13.30

Tarsus 17.33

BD 5.40

Mid toe 17.9

BW 4.51

Hallux 17.39

WL 55.22

Broad patch 7.6

2° tail 10.50

ad

TL 55.85

part 31

wt 17

Measure 5.68 x 1.04

2031-08195 ♂ FPK WKA

BL 8.57

Tarsus 17.42

BD 5.06

Mid toe 17.57

BW 5.20

Hallux 17.44

WL 58.75

Broad patch 11

2° tail 10.7

ad

TL 51.82

part 31

23.037

1990-4-13-1



1915

1915

3 April

2021-02-17 10:00 AM

TL 6.50

Liu, 1.00

TL 5.00

Liu, 1.00

TL 6.50

Liu, 1.00



390

1. *U. S. Fish Commission*

Bis in die nächsten Tage wird es sich nicht mehr ändern.

3 April

2031 06-119

卷之二

1. 1. 1.

11. *Leucosia* sp. (Diptera: Syrphidae) was collected from the same area as the *Chrysanthemum* sp. plants.

*redundant*

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10. The following table shows the number of hours worked by 1000 workers in a certain industry.

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100% *in vitro* bioavailability of the drug.

*Flu* *Wing* *P.*

Digitized by srujanika@gmail.com

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$\text{C}_1 = \text{C}_2 = \dots = \text{C}_n$



1990

1990

Gowland

154

Tigridia pulchra, Minas Gerais, Brazil

1990

27-93001

GR  
PK

FWH ♀

BL 8.3

TL vs 19.0

BD 5.33

width 18.12

BW 4.27

height 13.52

TL 52.00

Lip width

BD 12.50

a.

TL 59.70

first max

t 19.50

Class A 2.41.1.0

27-93002

GR F W H ♀

BL 8.61

TL vs 17.00

BD 5.79

width 17.00

BW 4.44

height 17.00

TL 61.69

Lip width

BD 12.20

a.

TL 62.34

t 17.50

Class A 2.41.1.0

1990

GR F W H ♀

BL 8.20

TL vs 17.00

BD 5.90

width 17.00

BW 4.15

height 17.00

TL 62.30

Lip width

BD 12.20

a.

0.7

0.6 mi S from whale pt along road to Kephart's place

N↑

RD FW BK ♂  
YL

GR GR ♂  
FW RD

wh YL FW ♂  
BL  
GR FU ♀  
PK wh - 10 June

1 → 20m ← 1

1930 Russell Creek Rive 2 mi NW Lafayette, Contra Costa Co. Calif 13° off elev

10.90

7.1

5.5

WL 6.0

BL 5.57

TL 6.0

7.7

BL 8.57

DD 5.54

BW 7.43

WL 6.0

TL 6.22

BL 5.72

7.7  
BL 8.57

TL 6.0 13.25

DD 5.54

BW 7.43

WL 6.0

TL 6.22

6.11  
7.22

16 April

Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif 400 ft elev

77-96021 ♂?

6<sup>th</sup>/FW GR  
RD

BL 8.14

Tarsus 19.13

DD 5.54

metatars 17.74

BW 7.43

hallux 14.07

WL 59.54

breast patch no

Z<sup>th</sup> to P<sup>th</sup> 10.91

op

TL 60.17

tail S+T

wt 19.00

caught a MacGillivray's Warbler (♂) in net + 3 other birds

Cleaver 6.42 & 6.00



eb 18  
1990

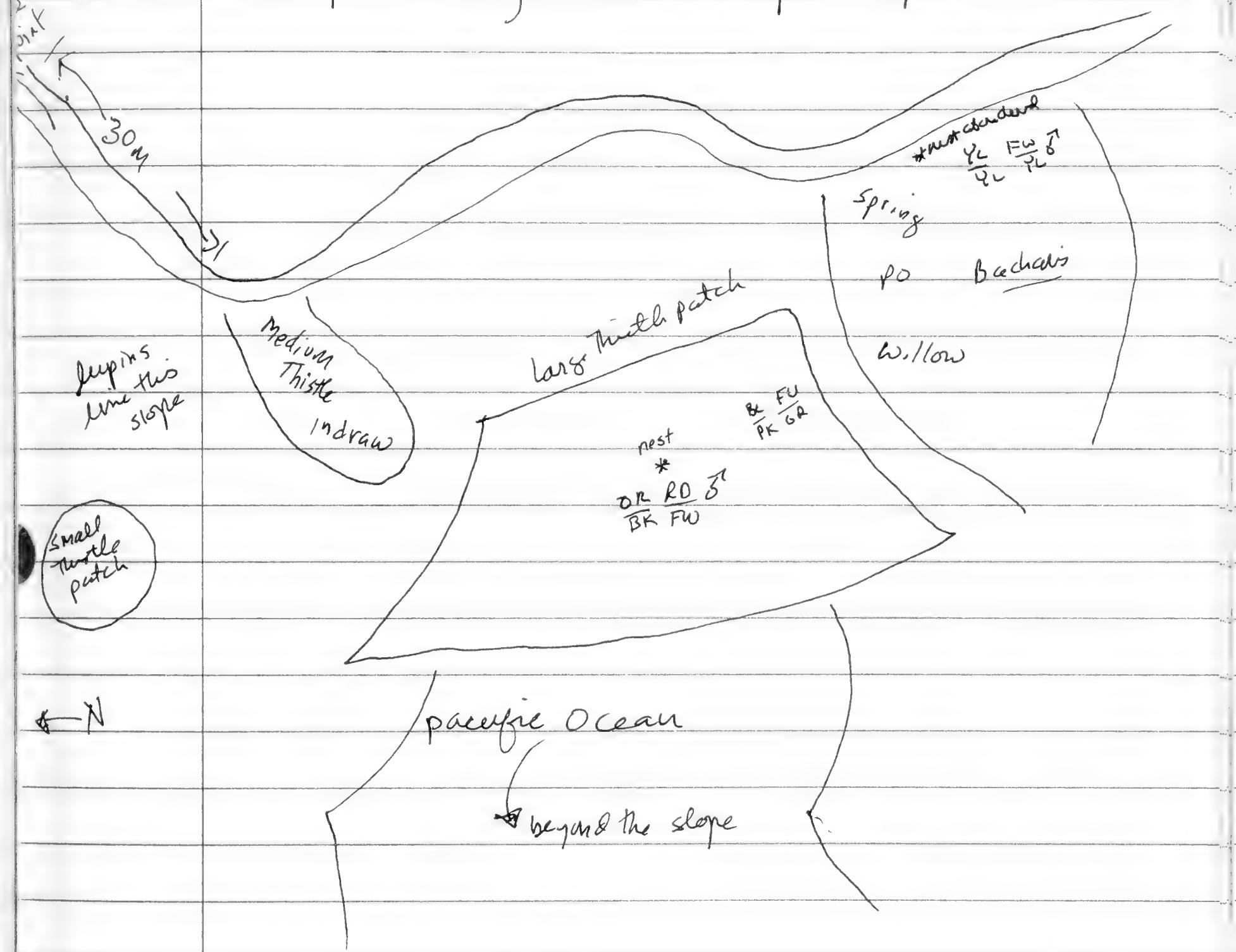
# Journal

156

Bee Creek Reserve, Gaviota, Monterey Co., Calif., 400 ft elev.  
(0.3 mi.)

17 April

Mapping out territories at the turtle bowl just S of  
Whale point along the road to Kephart's place.



<sup>OR P<sup>o</sup></sup>  
3<sup>rd</sup> <sup>fw</sup> was with an unmarked ♀. She was "buzzin'" a lot and sitting up on the thistles. She localized her movements to the NW edge of the thistle. I think she has a nest right on the W edge at the mid-point of the patch. I heard no "tictin'" so she is not incubating, but she did "Chimp" as I approached. She also didn't stay on the area for 30 minutes her activity bursts were every 15 minutes but always initiated from that same mid-point.



th, J  
1990

Journal

157

Big Creek Reserve, 5 mi. N Lucia, Monterey Co., Calif. 4000 ft elev.

17 April Met Paul Todd from Santa Cruz. I agreed to talk to his Natural History / Intro Ecology class next Wednesday we meet at 1st at 5 pm.

18 April Was observing  $\frac{OD}{PK}$   $\frac{FW}{PK}$  + his unmarked ♀ at the thistle patch. Saw her carrying grasses to a spot in the middle of the patch. I flagged 2 pts one on each side, she went b/t them 2 pts is where I saw her go with grass and come back up with an empty mouth.

Listening at draw with  $\frac{OD}{PK}$   $\frac{FW}{PK}$ , he has moved to the upper side (above the road) of the draw. The other male which had been further down has moved up ~20 yds, still not singing where  $\frac{OD}{PK}$   $\frac{FW}{PK}$  had on Monday (at top/near road) but closer. No sounds of ♀ is 20 minutes. Habitat looks great; thick with willows and some Poison Oak. After that I saw and heard a possible ♀ at the SW end of the upper draw. Also heard another ♂ further up who may be consorting with her. Returned after lunch to find ♀ in same general location and also in unmarked ♂ in close association while  $\frac{OD}{PK}$   $\frac{FW}{PK}$  sang like mad 20 yds to the south, hump! Watched  $\frac{OD}{PK}$   $\frac{FW}{PK}$  at draw with redwood stony. Female was there, thought she was feeding in wetland patch right near the road as I drove up she slowly flushed. She spent a long time on the S slope of the draw, but rocky concrete.

Back at the big thistle patch, observed an unmarked ♀ carrying grasses at top of draw with Barkaris, her ♂ is also unmarked.  $\frac{PK}{PK}$   $\frac{FW}{GR}$   $\frac{AC}{AC}$  I think is below this pair in the willows near the sprig. Also another unmarked pair on the N end of the Barkaris near the road they flew around a lot so probably not set in one area yet. Still no



uth, J  
1990

# Journal

1st nest  
1st eggs! 158

Bog Creek Reserve, 5 mi N Lucia, Monterey Co., Calif. 400 ft. elev.

18 April Segi of OR  $\frac{1}{4}$  FW OR or BF  $\frac{1}{4}$  FW Found 1st nest with eggs, the pair at the latrine have 3 warm eggs - 2-3 days still until light. The nest is ~ 1m high well covered from the top just 3m SW of latrine. The eggs are quite oblong. I did not measure them. More mosquitoes this trip despite very cool 50's and overcast. Lots of dr. fls. Took the back road to whale point and found a pair near the gate posts near the Devil's Creek private property. They were in the bushes right along the creek. It was very quiet up on the slopes where there were no many specimens a month ago.

19 April At the Packard property listening for females ~0600 hrs, drizzling overcast, no wind quite low light. The Black-headed Grosbeaks have arrived. So too, the Bullock's Orioles. Redwings are setting up territories in hayfield S of Paul's house.

**HB** **BK**  
**FW** **BC**

**PK** **OR**  
**FA** **PK**

**RD** **GR**  
**FW** **BC**

**RD** **GR**  
**FW** **BC**

was singing and conversing with a ♀ down in willow patch where had been. I've seen several Sparrows eating what looks like the long ("") fuzzy things from the willows. **RD GR** **FW BC** is now singing at west most wood/PO pile and also from the mid position Sycamores an unmarked ♀ responded to him from the <sup>shrubbery</sup> willow just NW of his pile.

Seen **GR** **BK**  
**FW** **DR** in same woodpile as **RD GR** **FW BC**!

20 April Russell Free Reservation, 2 mi NW Lafayette, Centre Co., Calif. 1300 ft.  
 Found nest q OR  
6R FU  
BK no sign of male. Nest is in a  
 light  
 low  
 too  
 to  
 single  
 feels  
 up  
 side  
 dead bush in the midst of the brush that line the S side of road  
 nest is 8 ft from Road. Four wayne eggs. it is  $1\frac{1}{2}$  ft off ground  
 ① L 19.53 ② L 20.16 ③ L 19.19 ④ L 19.95  
 W 15.04 W 15.11 W 15.27 W 15.07  
 wt 2.5 wt 2.5 wt 2.5 wt 2.5  
 wt 2.5g inc mea/light inc light? inc light  
 incl. Med. light



J

1990

## Journal

159

Russell Reserve, 2 mi NW Lafayette Contra Costa Co., Calif. 1300 ft elev.

20 April The nest is well-covered from above by milk thistle leaves.  
On the 10<sup>th</sup> of April when I tandem this pair she did not have a brood patch.

23 April ~~Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif. 400 ft elev.~~

4 eggs <sup>w/</sup> <sup>hwm</sup> unmarked pair at top of draw of Big Thistle patch

	1	2	3	4	nest is
L	19.96	19.64	19.40	19.77	1' off ground in Ephedra?
W	15.63	15.57	15.13	15.03	Well concealed above & below
wt	2.50g	2.50	2.0g	2.50	
inc light	light	?			dusted/grey

Flushed <sup>on</sup> <sup>RD</sup> <sup>FW</sup>'s unmarked female from nest in stinging nettle  
2 cold large eggs. Nest cup is beautifully covered by a  
needle leaf. The cup is built on some taller dead nettle  
fronds. It is not very well concealed from the side but  
all other sides are well hidden.

	1	2
L	20.90	20.90
W	14.76	15.30
wt	2.50	
inc	no	no

24 April 77-96022  $\frac{TL}{PL}$   $\frac{FW}{PL}$  ♂

BL 8.35 Tarsus 17.29

BD 5.69 middle 18.45

BW 4.32 belly 13.94

WL 60.75 brood patch

Ztot<sup>b</sup> 10.56 age

TL 59.13 tail. sit

wt 18.50

ovule 6.10 x 2.35

8

..

with, 19  
1990

Journal

160

\* ~~Big Creek Reserve, Sni N area, Monterey Co. Calif. 4000ft elev.~~

24 April Checked nest at top of draw near by Thule pass. 2 abandoned cold eggs. One egg had fallen out. I think the nest cup had tipped on its side too far for the ♀ to sit on the eggs w/o falling out!

25 April Nest of pair Unmarked S of Green Valley  
2 warm eggs

	1	2
c	20.05	19.75
w	15.19	15.04
wt	2.50	2.50
inc heavy		heavy

30 April ~~Gopher Creek Field station, 3 mi NW Hobart Mills, Nevada Co. Calif 6300ft.~~

♂ <sup>RD</sup> ~~FW~~ <sup>0.12</sup> ~~BL~~ is singing from same willow patch as last year!

Caught an abandoned ♂ just W of here they appear to be dubbing it out for this spot.

77-96023 ~~♂~~ 4L/BK <sup>FW</sup> ~~wh~~ 3

BL 8.99

Tarsus 19.08

BD 5.85

metac 17.84

BW 4.79

halley 14.42

WL 64.82

broodpatch no

~~♂~~ 2° to 1° V. 20

fat sh

TL 65.08

cloaca 4.31 x 4.36

wt 21.00g



Th, 9  
1990

Journal

161

Sophia Creek Field Station 3 mi NW Hot Creek Mts. Nevada Co., Calif., 6300 ft.

30 April

77-96024 ♂

$\frac{WL}{RD}$   $\frac{FW}{YL}$

BL 9.13

Tarsus 20.21

BD 6.43

Middle 17.94

BW 5.10

Hally 14.51

WL 65.33

Woodpatch no

2° to 1° 10.18

oy

TL 70.66

fat some

cloacal 4.42 x 3.17

wt 22.0g

77-96025 ♀

$\frac{BL}{BL}$   $\frac{FW}{DL}$

BL 8.77

Tarsus 19.43

BW 5.32

Middle 17.57

BW 4.78

Hally 13.54

WL 60.70

Woodpatch no

2° to 1° 10.22

oy

TL 65.61

fat much

wt 19.50g

cloacal 3.09 x 3.09

77-96026 ♂

$\frac{RD}{OR}$   $\frac{FW}{PK}$

BL 9.12

Tarsus 19.45

BD 5.92

Middle 19.46

BW 5.20

Hally 14.32

WL (11.74) 65.15

Woodpatch no

2° to 1°

oy

TL 67.89

fat some

lost one tail feather in net

wt 25.0g

cloacal 5.42 x  
6.62



1990

Journal

162

Sagehen Creek Field Station 3 mi NW of East Mills Nevada (elev. 6300 ft)

30 April 77-96027 ♂  $\frac{RD}{BK}$  FW/GR

BL 9.48

Tarsus 19.82

BD 5.92

Middle 19.00

BW 4.92

Hallux ~~13.5~~ 14.39

WL 64.07

broadpatch no  
eye ~~swell~~

2° to 1° 12.39

WT 25.00g

TL 67.60  
molting tail covats

fat much cloaca

6.18 x 5.20

77-96028 ♂

$\frac{RD}{GR}$  FW  
 $\frac{FW}{GR}$

BL 8.89

Tarsus 18.49

BD 5.79

Middle 17.76

BW 5.22

Hallux 13.73

WL 65.82

broadpatch no

2° to 1° 14.08

eye

TL 68.98

fat much

WT 25.00g

cloaca 6.81x  
5.06

77-96029 ♂

~~RD~~  $\frac{RD}{OR}$  FW/BK

BL 9.72

Tarsus 19.56

BD 6.35

Middle 18.22

BW 5.47

Hallux 14.90

WL 67.10

broadpatch no

2° to 1° 12.62

eye

TL 69.00

WT 25.00

fat much

cloaca 6.13x  
4.45



Ph, g  
1990

found

163

~~May 31~~ ~~Saxhen Creek Field Station 3 mi NW Hobart Mulls Woods Calif 6-20-84~~  
~~77-96030~~ ♂ ~~BL RD FW GR~~

BL 8.62

Tarsus 19.21

BD 6.39

Middle 18.23

BW 5.88

Hallux 14.79

WL 64.10

broadpatch

2° to 1° 10.72

eye

TL 66.51

fat some

WT 21.00 g cloaca 5.52 x 5.16

77-96031 ♂ ~~BL FW PK~~ ~~GR~~

BL 9.29

Tarsus 20.94

BD 5.94

Middle 17.73

BW 4.96

Hallux 14.26

WL 66.72

broadpatch no

2° to 1° 12.88

eye

TL 72.74

fat much

WT 21.00 g

cloaca 6.69 x 4.43

77-96032 ♂ ~~GR FW GR~~ ~~GR~~

BL 9.59

Tarsus 20.17

BD 6.28

Middle 19.15

BW 5.04

Hallux 14.89

WL 67.54

broadpatch

2° to 1° 11.72

eye

TL 73.53

fat much

WT 23.00

cloaca 8.98 x 5.27



gouldii 1st nestlings

with J  
1990

Journal

164

Sagehen Creek Field Station, 3 mi NW Hobart, Calif., Novak Co., Calif. 6300 ft

1 May 77-96033 ♂ OR FW  $\frac{4}{1}$  RD

BL 8.87

Tarsus 20.62

BD 6.06

Middle 18.57

BW 4.92

Hallux 15.50

WL 68.38

Broodpatch

2° to 1° 12.64

eye

TL 70.84

fat much

wt 25.00 g

cloaca 4.91 X  
7.35

77-96034 BK PW BK GR ♂

BL 9.20

Tarsus 19.77 19.75

BD 5.96

Middle 18.21

BW 4.90

Hallux 15.43

WL 65.57

Broodpatch no

2° to 1° 11.53

eye

TL 73.55

fat much

wt 21.80 g

cloaca 5.2 BX  
6.07

6 May Russell Tree Reservation, 2 mi NW Lafayette, Contra Costa Co., Calif. 6300 ft

Nestlings of OR  
GR  
BK no feathers emerged I will color band only

	Rt leg BK	Lft leg BK	Lft leg OR	Rt leg OR
BL	3.26	3.80	3.78	4.15
BD	2.82	3.14	3.15	3.05
BW	3.22	3.28	3.45	3.01
WL	15.99 no emer.	17.68 no emer.	21.78 no emer.	19.85 no emer.
TL	0	0	1.51	0.0
Tarsus	12.32	13.90	14.49	15.27
Middle	15.08	17.23	18.61	17.71
Hallux	9.46	9.92	10.85	10.43
Wt	8g	11g	12g	12g
Fat	some	some	some	much
Agt	4 days?	4	4	4
	Eyes closed	Eyes open	Eyes open	Eyes open



March 19  
1950

Journal

165

Russell Field Reservation, 2 mi. NW Lafayette, Contra Costa Co., Calif. 1300 ft

7 May Nestly ♀  $\frac{BL}{FW} \frac{20}{8K}$  + unmarked ♀  
~8 days old

77-96035 left BL Right

BL 4.87

Tarsus 18.19

BD 3.57

Middle 18.81

BW 3.67

Wing 12.92

WL  $\frac{3.79}{31.44}$

wt 15.08

TL  $\frac{1.55}{7.8}$

fat pouch

Molt wing

+ tail

Wing  $\frac{6.09}{10.47}$

Butt  $\frac{9.83}{16.51}$

one undeveloped egg L 20.07 w 15.22

nic light

8 May

Big Creek Reserve, 5 mi. N Lucia, Monterey Co., California 4000 ft

Found nest of  $\frac{7L}{FW} \frac{FW}{BL}$  ♀ on Postcard property. It is in a stand of nettles ~2½' off the ground very substantial nest cup with sturdy twigs and milk thistle leaves (dried). The cup is covered by nettle leaves. I will not mark the eggs.

	1	2	3	4
L	18.98	20.00	19.66	19.16
W	14.81	14.67	15.37	15.21
wt	2.0g	2.0g	2.0g	2.0g
inc	overcast, coolish			

These are warm eggs. I flushed the female



Smith, J

1990

## Journal

166

Big Creek Reserve, Sm N Lucia, Monterey Co., Calif 400 ft elev.

9 May

wh 1/4L FW 1/3L 8'

nest with 4 warm eggs. 2' off the ground in

wild pea and Eriogonum.

	2	3	4
L	20.03	19.18	18.93
W	15.91	15.73	15.55
wt	2.5 g	2.0g	2.0g
inc	Tar overcast		

3 nestlings of pair in draw just S of whole point  
 nest is in Eriogonum ad nettles. Hatch Day

	left foot	right foot	both feet
BL	2.06	2.19	2.36
BD	2.27	2.28	2.54
BW	2.41	2.36	2.27
WL	6.09	6.07	5.71
TL	0	0	0
Tarsus	5.64	5.62	5.46
middle toe	6.91	6.45	6.70
toe	4.83	4.25	4.38
gc	1	1	1
fat	some	some	some
wt	2.25	2.25	2.0g

saw ♀ carrying food but not the ♂; he probably doesn't know  
 they've hatched. Caught female coming off north ridge

77-96036 DL FW BR/6R

BL 8.17 20 to 10 16.93 Wallay 14.02

BD 5.35 TL 58.47 broodpatch yes cloaca 2.42x 0.82

BW 4.53 Tarsus 18.91 fat much

WL 55.79 middle 17.36 wt 19.0g



with, J  
1990

Journal

167

Russell Bee Reservation, 2 mi NW Lafayette, Contra Costa Co., Calif. 6300 ft elev.

11 May Nest check at  $\frac{OR}{GR} \frac{FW}{BK}$  empty nest saw one adult. No sign of fledglings no distinct calls by parents; it looks bad! 1♂ of this pair is  $\frac{PK}{BC} \frac{FW}{BK}$ . I couldn't tell which adult I saw but it certainly was  $FW/BK$ .

13 May Found nest of  $\frac{GR}{FW} \frac{OP}{BK}$  in milk thistle patch 4 warm eggs. I believe  $\frac{BC}{FW} \frac{WY}{BC}$  +  $\frac{FW}{GR} \frac{OP}{BK}$  are feeding a fledgling.

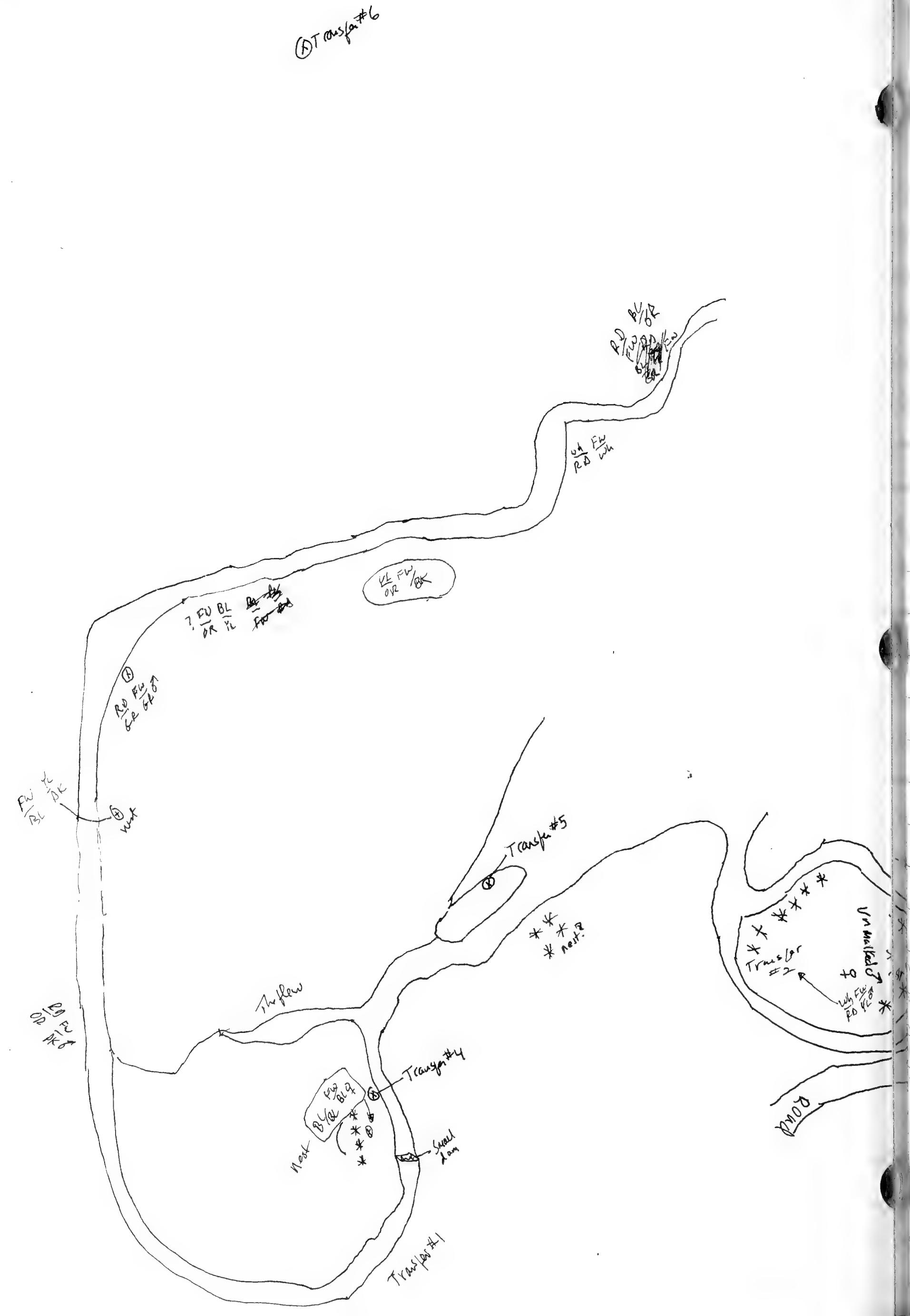
	1	2	3	4
L	20.57	20.43	20.52	20.40
W	15.25	15.42	15.40	15.08
WT	2.50	2.5	2.0	2.08
INC	heavy	hvy	hvy	hvy

16 May Sardine Creek Field Sta., 3 mi NW Hart Mills, Nevada Co., Calif. 6300 ft elev.  
 $\frac{PK}{FW} \frac{OR}{BL}$  ♂ sitting in willow grass where ♀ nests last year. There is another ♂ singing just w of tree shed.

Found nest of  $\frac{BL}{FW}$  ad unmarked ♀, 4 warm eggs, flushed female. nest is NW 1m from metal tepee containing bird w. willow shrub last year's nest

	1	2	3	4
L	19.93	20.99	19.27	20.36
W	15.56	15.83	15.75	15.65
WT	2.25	2.50	2.25	2.25
INC	hvy	hvy	hvy	hvy

nest is ~10" off ground concealed by tall dead grass in a low willow



1990

Journal

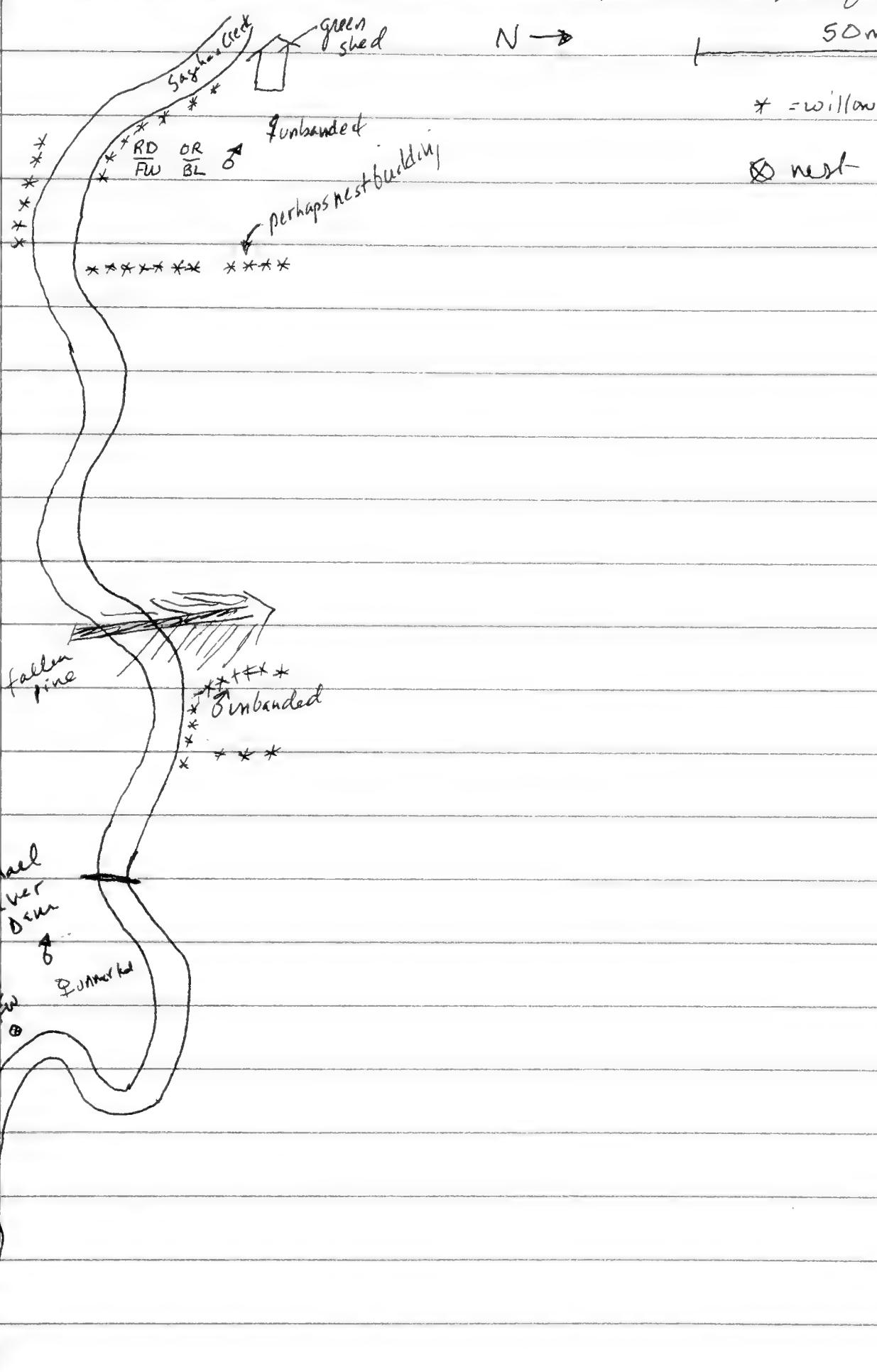
168

Sagehen Creek Field Sta. 3 mi NW Hobart Mts., Nevada Co., Calif. 6300 ft

16 May

N →

50m



At the bend just W of rock pile I saw ♂  $\frac{FW}{BL}$   $\frac{W}{BK}$  with  
marked ♀ or is a  $\frac{OR}{BL}$   $\frac{FW}{BK}$



months of  
1990

# Journal

169

By Creek known, S. of Lucia, Monterey Co., Calif. 900 ft. elev.

21 May Found nest of unmarked pair W of ♀ BC/FW BC/Gd in draw  
seats of whale pt. Flushed ♀ off of 3 warm eggs.  
1 damaged egg so left a dummy in its place.

	1	2	3
L	20.36	19.23	19.75
w	15.09	14.93	15.17
wt.	2.08		

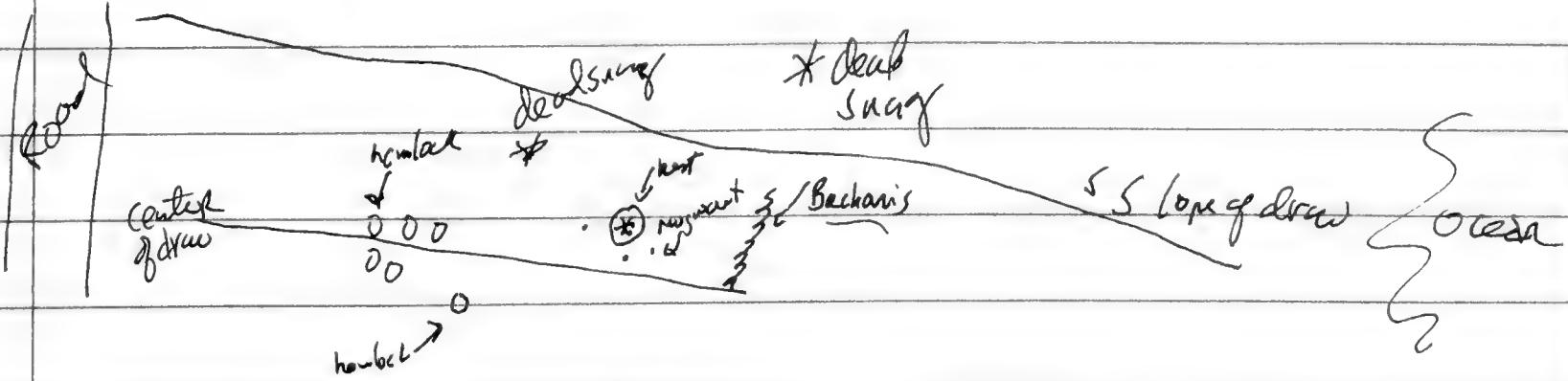
~~brown back~~ 5°  
discarded opened by saw well developed eye ad veins and one feather

Nest check at ♀ <sup>BL</sup><sub>FW</sub> <sup>BE</sup>/66 was empty, no sign of ♀ or fledglings, ♂ singing vigorously.

→ These egg shells were very flimsy - seemed too moist. I  
decided another of the eggs as → put it back in the nest! Argh.  
Checked nest 1 hour later. ♀ ad ♂ clutch eggs seemed warm but in strange  
configuration in a straight line side to side OOO in nest cup.

Found nest of unbanded pair  $\Sigma$  up the draw from  
 $\text{♀ } \text{B}^{\text{L}}/\text{FW } \text{B}^{\text{L}}$ , I found nest with Boncs so I did  
not check it for eggs (also didn't want to risk another  
smashing)  $\text{♀}$  (unbanded) returned to nest and is sitting on eggs (?)  
certainly she is not feeding young. I could not see anything  
in the nest when she took off. Nest 65 yds  $\Sigma$  of  $\text{B}^{\text{L}}/\text{FW}$ 's nest.

50 yds west of Road





18

1990

## Journal

170

~~Big Creek Reserve, San Lucia, Monterey Co., Calif. 400 ft elev.~~

21 May Nest is 2' off ground. I flagged a small Bachman on N slope from nest 25yds if you peer at the flag the nest is right above it.

Nest check at WY/4C FW/BL 8 (nest found 9 May). Nest empty no sign of fledgling. Heard male singing in area and felt yrs of chomping

Found nest of pair west of <sup>PK</sup><sub>FW</sub> <sup>PK</sup><sub>RO</sub> ♂ 4 warm eggs quite close to road

	1	2	3	4
c	20.07	19.97	20.05	20.02
w	15.87	15.60	15.81	15.49
wt	-	-	-	-
inc	light	light	lightened	light

Nest is 4' west of flag in eucalyptus and spearment-like stuff.

22 May No other song on in taller yellow's draw aside from the nest & stopped on! when I saw the ♀ today last week at the W end of draw she is no longer and there are many ♂'s singing in that area. It has been foggy all day with patches of sunlight.

Found nest (fledged unmarked ♀) in area where Diamond Jim had been, no sign of him but saw & heard unmarked ♂ in area with ♀. Nest is close to road ad ~5 feet W of flag, nest is in a Ceanothus about 2' off ground not well-concealed



Journal

172

Sybil

27 May Transfer #1 - Nest furthest east of trio.  $\Sigma$  8  $^{\text{dLc}}$  / FW  
2 eggs ♀ returned to laying eggs. Yesterday had 4 eggs

	1	2
C	19.71	20.17
W	14.78	14.78
WT	-	-

Transfer #2 nest of Sybil? just  $\Sigma$  of her  
in them, nest very warm. ~~had cold eggs~~

	1	2	3	4
C	20.67	20.71	20.46	20.85
W	15.42	15.13	15.17	15.33

Transfer #3 nest where  $^{\text{dLc}}$  was last yr just  
 $\Sigma$  of  $^{\text{BL}}/\text{FW}$

	1	2	3	4
C	19.63	20.62	19.75	20.27
W	15.70	15.35	15.69	15.27

had a careful  
828 hrs all 3 clutches into styrofoam  
& T = 34°C

By creek

1531 hrs transfer #3 to 15F most Sandler's  
nest by Redwood strip. 4 warm eggs.

	1	2	3	4
C				
W				



## journal

172

## Big Creek

27 May Nesting at top of whole pt draw

left leg

RL

BL 3.38

3.37

BD 3.07

2.97

BW 3.04

2.60

WL 11.55

12.80

TL 0

0

Tarsus 12.61

10.85

middle 13.43

14.97

hallux 8.03

7.55

volt  $2\frac{0}{3}^{\circ}$  $2\frac{0}{3}^{\circ}$ 

age 4 days?

4?

wt 8.0g

8.0g

clown

-

feet much furc

mack

eyes slightly open

head still downy

Track #2 goes to pair in bottom of big hole  
probably 2nd clutch



June 18  
1990

Journal

173

Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif. 400 ft elev

27 May 4 nestlings born today (dg old in nest in

reanesters just N of farm at Bowl

left ← → rt

~~both~~ <sup>nor</sup>

done

SL	2.19	1.72	2.32	2.03
BD	2.56	2.36	2.07	2.13
BW	2.30	2.02	1.88	2.43
WL	5.55	5.19	6.56	6.97
TL	0	0	—	—
Tars	7.06	312.12	315.51	313.99
mid tars	6.57			
wings	4.23	4.12	4.97	9.88 <del>5.38</del>
wt	3.08	2.5	4.0	3.0
gr	1			
fat	mod	slt	some gut bulging	some gut bulging

28 May Sage Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif. 6300 ft

0819 hours measurements of Big Creek eggs from transfer

Transfer #2 Flushed sighted ♀ 97% water & downy left due to early to late clutch of 4

	1	2	3
--	---	---	---

L	19.87	20.14	19.65
---	-------	-------	-------

W	15.27	15.84	15.15
---	-------	-------	-------

hatched

Shells very soft - perhaps too hard in incubation

Transfer #3

	1	2	3	4
--	---	---	---	---

L	20.03	19.95	20.08	20.07
---	-------	-------	-------	-------

W	15.41	15.54	15.72	15.78
---	-------	-------	-------	-------

Flushed ♀ abd of 5 (1 cowbird egg) eggs, left 4 Big Creek eggs.

—

—  
—  
—

th, 1990

Journal

174

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif 6300ft

28 May Transfer #1 was returned to home nest; it rejects a complete clutch. The ♀ I am not certain is on eggs. Each of the other ♀'s of transfers #2 +  $\frac{1}{3}$  gone are the impression they had accepted their clutch. I saw #2 ♀ return and stay near for at least 10 minutes.

29 May Ken Hobson is with me today we are looking for nests & transfer clutches. Found nest of BL FW  
BL BL F it is in a willow ~1½' off ground just N ~4 feet of long bowing dead tree. ♂ 3 eggs all are newly just hatched marked ♀ was in attendance too.

Nest of FW/BL  $\frac{1}{3}$  BF ♂, unmarked ♀, 4 nestlings 2 days

	1	2	3	4
SL	3.07	2.82	3.06	2.07
BD	2.61	2.33	2.90	2.36
BW	2.97	2.56	2.58	2.04
WL	6.56	7.39	6.45	5.81
TL	0	0	0	0
Tars	6.55	6.71	6.29	5.73
midleg	7.80	7.88	7.93	6.25
halter	4.25	4.38	4.40	3.84
eye	2	2	2	1
wt	3.08	3.08	2.50	2.08
fat	much	much	some	slit
m+H	downy yesslit			very little down

$\lambda_{\text{max}} = \frac{\lambda_{\text{min}}^2}{\lambda_{\text{min}} + 2\lambda_{\text{max}}}$

fl, g  
1990

Journal

175

Sycamore Field Station, 3 mi NW Hobart Mtns, Nevada Co., Calif. 6300 ft

30 May

$\frac{4}{2}$  for FW BK ♂'s three nestlings

3 unbanded

BL 3.86

3.70

3.91

BD 3.19

3.31

2.92

BW 3.38

3.22 3.21

2.23

WL 15.80

15.08

12.22

TL 0

0

Tarsus 11.35 13.11

11.50

12.01

wt 16.50 15.35

13.21

14.64

hatch 9.32

9.15

7.80

wt 9.05

8.08

8.05

fat some

8.10 9.00

some

2.51

wt clay beak

3.88 1. 3.55 1.0

3.18

age 5 days

4 days

4

R/K/B/  
K

left BK

20/FW 6/6R

31 May

Nestlings of pair 2 & 3

24 days old

R/K/B/  
K

1

2

3

4

BL

2.85

2.96

2.91

3.09

BD

2.59

2.95

2.73

2.69

BW

2.83

2.64

2.55

2.58

WL

1.11

8.47

7.49

8.16

TL

0

0

0

0

Tarsus

3.45

8.23

7.86

8.17

middle

9.65

10.22

9.66

9.68

hatch

6.15

6.12

5.54

6.05

wt

too cold

-

-

-

fat

slight

→

→

→

molting

downy  
ext scabs

→

→

→

5

6

Mar 1950

Journal

176

Sage Creek Field Station, 3 mi N of Hobart Mills, Mendocino Co., Calif 63844

31 May  $\frac{BL}{PK} \frac{FW}{SK}$  ♂ ad unmarked ♀ had nest ♀ & chick  
~ 5 or 6 days old found chicks frozen solid in nest  
this morning. T = 27°F. It moved 2 inches last night.

Also found nest of ♂ just left & last yr it became  $\frac{BL}{FW}$   
somewhat & chicks ~ 2 days old. Did not measure too cold.

Found nest of  $\frac{BL}{PK} \frac{FW}{SK}$  ♂ ad unmarked ♀ 4 eggs flushed  
♀ flagged nest.

4 June Big Creek Reserve, San Lucia, Monterey Co., Calif kept  
All nests (including all transfers) empty!

5 June Found nest of  $\frac{BL}{PK} \frac{FW}{SK}$  ♂ 2 eggs, unmarked ♀ in sage  
quite near S end top of draw, 40 yds N g. 1/4's 1st nest.  
No signs of yellow yellow there is a new unmarked ♂  
in his territory.

8 June Sage Creek Field Station

Transfer #3 hatched 2 young, 2 unhatched eggs.

flushed ♀

BL 3.26

BK 2.88

BW 2.28

WL 10.81

TL 0

Tarsus 10.78

Tail 12.24

6.68

3.0 P - 2  
1.42

drawn

24 days

AG 8.50 g

WT 8.50 g

Foot some



2. ~~sparrow hawk~~

2.52

2.44

2.82

9.42

0

8.74

10.77

6.47

0.96

3 days

10.50 g

some

10.101

6.47

0.96

3 days

10.50 g

some



10th, J  
1990

Journal

177

~~Waggon Creek Field Sta., 3 mi NW Hobart Valley, Weada Co Calif 6300 ft~~

8 June 4 nestlings of <sup>RG/FW BK</sup> ♂ and unmarked ♀

left leg 1

right 2

both 3

now 4

BL 3.43

3.20

3.10

3.45

BD 2.78

2.98

~~2.89~~ 2.79

3.15

BW 2.79

3.14

2.92

~~3.23~~

WL 12.42

13.44

11.35

13.31

TL 0

0

0

0

Tarsus 11.70

10.83

10.05

11.02

mid toe 14.44

15.07

14.64

15.20

wing 0.19

0.23

7.67

8.29

~~3rd 10~~ ~~0~~  
~~1.99~~

~~2.59~~

~~1.64~~

~~3.02~~

molt downy

age 3 days

3

<sup>May be 2</sup>  
3 day

3

wt 8.0g

8.0g

8.0

9.0g

fat some

some

some

much

eyes closed

4 nestlings of <sup>BK/FW PK/RD</sup> ♂ nestlings joined as I grabbed them

8 June

77-96038/X BK 77-96039/X  $\frac{1}{2}$  40X  $\frac{1}{2}$   $\frac{1}{2}$   $\frac{1}{2}$

BL 5.61

5.67

6.18

5.94

BD 4.32

4.36

4.56

4.22

BW

4.14

3.91

4.30

3.93

WL

11.23

14.62

11.36

39.52

TL

13.07

17.11

12.65

10.36

Tarsus

18.87

17.31

17.76

18.03

mid toe

18.30

19.63

19.19

19.28

wing

13.29

13.74

12.65

12.63

molt

~~22.05~~ <sup>3rd 10</sup> ~~3.64~~ tail  
29.18 15.07

~~10.93~~ <sup>5.12</sup>  
29.07 17.11

~~18.53~~ <sup>4.07</sup>  
28.85 12.65

~~14.66~~ <sup>2.79</sup>  
27.14 10.36

productiveness

8.08

8.59

8.60

8.04

fat

much

much

much

some

wt

17.76

17.50

16.08

16.0

age

9 days

9

9

9



July 19  
1990

Journal

178

Saychen Creek Field Sta., 3 mi NW Hibbert Mtns, Nevada Co., Calif

9 June Transfer #4(1) BC/BL<sup>BC</sup>/FW 3 warm eggs flushed ♀

1

2

3

L 19.19

19.05

19.69

w 14.66

14.90

15.20

wt

inc light

light

light

Transfer #2(5) ♀ SW of BC/BL 4 warm eggs ♂ has no or band  
possibly right leg

1

2

3

4

L 20.28

19.49

19.98

19.61

w 15.31

14.63

15.05

14.89

wt

inc 1. wt/med

med

med/light

med/light

Transfer #3(6) Easterly most pair 4 warm eggs

Flushed ♀

DR BC<sup>BC</sup> BL<sup>BL</sup> FW<sup>FW</sup>

1

2

3

4

L 19.63

19.91

20.09

19.73

w 15.55

15.36

15.37

15.46

wt

inc light

light

med

med

Put in styrofoam T=36°C 1242 hours leave for Big Creek

Arrive Big Creek 1930 hours T=30°C.

Big Creek Reserve, San Lucia, Monterey Co., Calif 4000 ft

Plugged in incubator at 1930 hours at 2000 hrs was

102 dry 95° F wet so took out water and turned down - the



Mr. J  
1990

Journal

179

Bij Creek Reserve, Sui Nuevia, Monterey Co. Calif 400 ft

9 June eggs are still in the styrofoam. I will wait for incubator to equilibrate then I'll put them in. The incubator is 115V and draws 40watts. I have it set up on the specimen case in the laboratory near John's desk. It is out of direct sunlight. We are using an extension to run it off of the battery current.

Took I-80 to I-5 to 152W to 156W to Os. Seemed

faster than going all the way to 680 or down I-5 to 156W. Also may be short cut to 152W via (33).

I used a flashlight to candle them light means that there is a red translucent ball surrounded by lighter area it is not dark anywhere. 2216 hours had to get incubator with proper wet field. Seems to be too humid ~92°F wet bulb and 100°F dry bulb. Have set reservoir at lowest point after having it off for 20 minutes. After 20 minutes without the reservoir the dry was 100°F and wet was 87°F, I am not confident to leave it over night without the reservoir so I put it back on.

2246 hrs incubator may have equilibrated at dry = 100°F and wet = 87°F. Eggs have been in incubator for 30 minutes now.

I will wait 20 more minutes then go to sleep after a last check on the incubator. 2354 hours dry = 99°F; wet = 84°F

10 June 0526 hours dry bulb T = 100°F, wet T = 100°F there was no H<sub>2</sub>O in pans. 0600 dry T = 99°F, wet T = 86°F. 0825 hours dry T = 97°F wet T = 86°F. Nest in form w. th. front 2x4" enclosure was abandoned, 4 eggs are measured

	1	2	3	4
L	18.83	19.35	18.71	18.63
W	14.38	14.55	14.15	14.63



Ruth, J

1990

Journal

180

Big Creek Reserve, San Lucia, Monterey Co. Calif 900 ft

10 June

Nest above enclosure nest was eaten.

Transfer #5 (box 2) will go to pair at bottom of favorite bank in Redwood. This pair is also pair of transfer #3. <sup>3 eggs</sup> flushed?

L	19.53	19.73	19.88
W	14.98	15.20	15.66

Transfer ~~#3~~ #4 (box 1) will go to unmarked pair at top of bank ~~2nd story~~ where yellow cypress used to be (2nd bank S of whole pt.)

3 eggs I guessed which one  
laid <sup>was hatched</sup>  
<sup>in nest</sup> laid 11 June

L	19.34	19.30	19.96
W	15.57	15.50	15.72 small & large

I flushed ♀ of 2 eggs but do not believe she is incubating, so I will not put in saucer eggs until tomorrow.

Transfer #5 eggs were removed from incubator 1230 hrs  
dry T = 98°F wet T = 53°F.

Transfer #6 (box 3) pair at top of whole pt. Took 2 eggs  
do not think incubation has begun. Put enclosure around  
the nest. Flushed ♀ 1st time heard male sing. This  
is same pair who had banded nestling on 27 May 1990.

Now nest is 3 yards S of old nest in Achillea.

eggs labeled 3 A. Will exchange saucer eggs for dummy  
tomorrow

laid 11 June

1	2	3
L 20.25	20.52	20.56

W 14.73	14.77	14.99
---------	-------	-------

inc Light

Light

not candled  
or labeled

To decrease wet bulb add H<sub>2</sub>O -



Feb 19  
1990

Journal

181

~~Big Creek Reserve, 5 mi N Lucia, Monterey Co. Calif 400 ft~~

10 June Found nest of ~~both~~ <sup>F4</sup> ~~BL 3'~~ + <sup>6L</sup> ~~dw~~ <sup>dw</sup> ~~wm~~ ♀ saw at least one incubated egg at over 1 or 2 day old nestly. Both parents in the vicinity will try to measure tomorrow.

11 June 0941 hours all eggs out of incubator at dry = 100°F, wet T = 83°F. Into styrofoam at T = 37°C

Transfer #6, 1017 hours flushed ♀ off 2 downy eggs plus 1 new one of hers - eggs were warm just like 4 transfer eggs. She seemed unaffected by the wire!  
Her new egg is added on page 181

Transfer #4 flushed female off of 3 warm eggs 2 downies and 1 new egg. I forgot to mark the downies so I'm not sure which one is hers so will not measure.

Put up enclosure and dog away with pepper. 1104 hrs no for Tracker.

~~Sagehen Creek Field Station 3 mi NW Heber Hot Springs Nevada Co Calif 6300~~  
1809 hours T = 32°C in ~~incubator~~, styrofoam. Will put egg back into Sylva nests now.

Transfer #6 - flushed ♀ off of 4 warm downy eggs replaced with 3 big creek eggs at downy. Dog away and peppered not hear ♂!

Transfer #4 - now had 4 warm eggs (flushed ♀) she must have laid one today. I took out all the eggs and replaced with ~~7~~ eggs (3 red + 1 downy).

Transfer #5 - ♀ not on eggs but seemed warm at nest (4 downies removed) top warm. As I was transferring eggs Sparrow came into willow near nest and disturbed called.

dry  
D8

pepper



uth J

1990

## Journal

182

Soroco Creek Field Sta., 3 mi NW Hobart Mills Nevada Co., Calif

12 June Found nest of <sup>RB</sup> / FW <sup>OK</sup> / <sup>PC</sup> ♂ ad marked ♀ 3 eggs 6.30 ft

	1	2	3	combird?
L	20.55	20.56	21.02	✓
W	15.71	16.06	15.61	
	med	hoy	med	

I labeled eggs. Not sure if incubation eggs. Pupper  
5 dy away

Band day for Transfer #3 measured 15 + 8 June

77-96042 left leg / RD/RD      | 77-96043 / <sup>RD</sup> / RS

BL	4.95	4.63
BD	3.55	3.09
BW	3.40	3.38
WL	27.00	23.75
TL	6.72	3.85
Tar	14.34	32.66
Middle	19.81	
Wing web	11.61	10.65
wolt	<sup>0.59</sup> <u>16.52</u> 3rd 10, <sup>0.55</sup> <del>23.79</del> feather shaft not whorled	<sup>0</sup> <u>11.99</u> , <sup>0.30</sup> <u>2.51</u>

fat	much	much
wt	14.0g	13.0g
rand	7.12	6.12
age	7 days	6 days
	previously marked on left leg	



M.O.  
1990

Journal

183

Big Creek Reserve, Sri N Lucia, Monterey Co., Calif. 400 ft

18 June Transfer #4 / nest <sup>mellow yellow's steaty</sup> empty, heard a male sing in the area no sign of ♀ no sign of activity around under the exclosure Nest cup was tilted slightly to the E but as I recall it was this way initially too

Transfer #6 (Pair at top of whale pt draw). 4 warm eggs heard ♂ sing ad ♀ chimp. I will increase the fence around her nest taking the circle from transfer #4's deserted nest.

Packard prop

19 June

Found nests of ~~Fox~~ <sup>1/2</sup> <sup>FW/BL ♀</sup> put in exclosure 4 warm eggs into incubator dry T= 98°F and wet bulb T= 83°F at 1300 hours had been held in Myrofoam T= 28-28°C for 1 hour labeled transfer #1

Found nest of pair E of FW/BL in Sycamore grove of Packard property 4 warm eggs labeled 2.

Found nest of pair at bottom of willow yellow draw about 4 feet up in a Bracken Fern (4 warm eggs labeled 3).

Transfer #7 (labeled #1) exclosure nest 8' circumference

	1	2	3	4
L	19.29	18.76	19.82	19.65
W	15.47	15.21	15.53	15.27
	med	med	med	med

I cannot reach my arm into the nest from outside exclosure



uth, 9  
1990

Journal

184

Bij Creek Reserve, Sni X) Lucia, Monterey Co., Calif 900ft

19 June Transfer #8 (labeled 2)

	1	2	3	4
L	19.37	19.89	20.06	20.21
w	15.56	15.37	15.53	15.83
inc	med/light	med	red/light	med/light

Transfer #9 (labeled 3)

	1	2	3	4
L	19.73	19.80	20.69	19.43
w	14.64	15.23	15.04	14.84
inc	<del>med</del> med	<del>med</del> med	med	med/bog

Found a new unmarked pair where  $\frac{wh}{pk}/fw \delta^+$  used to be. Nest  $\frac{\#^{10}}{pk}$  had 2 cold eggs total parents chipping at dry tickling. I took the 2 eggs and will place them in incubator. Will return tomorrow for the next installment. Left 2 blue canary eggs.

Flyed, dog away and prepared nest area. Heard no singing by pair in bottom of draw from this new pair (i.e. transplant #1 guys) perhaps they moved up and usurped  $\frac{wh}{pk}/fw \delta^+$ 's territory.

Checked nest of  $\left[ \frac{wh}{pk} fw \delta^+ + \frac{gr}{pk} fw \frac{wh}{pk} \delta^+ \right]$  empty. Fly appeared to have moved 5 days checked.

Transfer #10 (labeled 4)

	1	2	into incubator 1924 hours
L	20.36	19.99	dry $T = 98.5^\circ F$ , wet $T = 85^\circ F$
w	15.54	15.90	
inc	light	light	



17, 8  
1990

Journal

185

Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif 400 ft

19 June Re-checked transfer #7 (~~2 1/2~~ <sup>FW</sup> or <sup>BC</sup> ♀) at 1900 hours  
♀ flushed off during census ran along the 2" wide board I had placed under her nest as a support and exited to cage. ♂ sang.

20 June Checked transfer #6, at top of whale point, ♂ sang, ♀ was observed carrying food to the nest at 0700 hours!

-Transfer #5 hatched today! nestly looks very weak left by labeled 1150 hours

BL	Tarsus	Caliper malfunction
BD	middle toe	could not measure him
BW	hallux	age - 1 day
WL	wt	every time nestly breathed
TL	fat	it seemed to labor with the mouth open its bill and pull the air into its lungs

3rd egg of Transfer #10 (labeled 4) laid today  
3

L 20.70

W 15.96

inc laid today

into incubator 1320 hours dry T=105°F, wet T=84°F

BL 2.06

Tarsus }

age - 1 day

BD 2.10

middle toe }

12.97

BW 2.00

hallux 4.91

WL 5.04

wt 1.5 g

TL 0

fat some shoulder

dead chick! 142.8 mm³



10th, 9  
1990

Journal

186

Big Creek Reserve, San N Lucia, Monterey Co., Calif 400 ft

20 June	Transfer #6 - Pair at top of whole pt	2 unhatched eggs left
	left leg	rt leg
BL	2.52	2.69
BD	2.61	2.57
BW	2.42	2.32
WL	7.27	7.16
TL	0	0
Tarsus	15.48	14.35
mid toe		
Wing	5.12	4.76
age	28 days	2
fat	much scarp	much
wt	3.58	3.5
note	dormy, eyes closed	dormy, eyes closed

Found nest of  $\frac{Wt}{Bd} \frac{Bw}{Bl}$  ♂ and ♀ with 2 cool eggs

removed 1533 hours placed in styrofoam at 7-32°C

put in 2 canary eggs. Eggs were cool to touch, flushed ♀

Eggs of  $\frac{Wt}{Bd} \frac{Bw}{Bl}$  labeled 5 Transfer #11

1 2

L 20.29 19.99

W 16.09 16.00

inc not begun yet

into incubator 1724 hours dry T = 99.5 wet T = 84

21 June All eggs out of incubator at 0617 hours dry T = 99.5°F, wet T = 82.5°F

into styrofoam at T = 32°C (probably higher b/c lid is off).

I'm off to pick up new eggs at transfers #10 & 11.



7, 9  
1990

Journal

187

By Creek Reserve, San Lucia, Monterey Co., Calif. 600 ft.

21 June

0710 hours flew over no new eggs. I am concerned that  $\text{♂ PK/FW}$  may have deserted. ♂ saw as I stood at nest but F never heard anything from ♀. The nestcup was dry but not warm, I added 2 more canary eggs, dry and pepper. Likewise at pair  $\text{♀ PK/FW}$  finding no new eggs. Canary eggs felt like water but not hot nest cup dry, one of the parents ♂ was chirping while I was at the nest, this stopped when I left. I returned and stood at card, & added a 4<sup>th</sup> canary egg to this clutch.

Leaving Big Creek for Truchee 0713 hours. 0719 hours

Saw ♀ at  $\text{PK/FW}$ 's old territory with ♂ and return to nest!

22 June

Sagehen Creek Field Station, San NW Hobart Mills, Nevada Co., Calif. 6300 ft.

Yesterday - I arrived at the station at 2pm

Transfer #7 (labeled 1)  $\text{PK/FW}$   $\text{OK/BK}$  ♂ ad unmarked ♀. This is not him ♂ is unmarked but in territory where PK/FW was in 1959.

	1	2	3	4
L	20.91	21.35	19.96	20.79
W	15.88	15.74	15.40	15.73
nic	hvy	hvy	hvy	hvy

out of nice dry T=37°C, nest T=29°C. time is 158.8 hours

Transfer #9 (labeled 3) to unmarked pair S of  $\text{BL/BL}$   $\text{PK/FW}$

	1	2	3	4
L	19.63	20.04	19.80	19.60
W	15.17	15.17	15.00	14.64
nic	hvy	hvy	hvy	hvy

Both clutches (Sagehen eggs) were warm & card parents sleeping



Sust; ♀

## Journal

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1990

Sagebrush Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif. 6300 ft elev.

22 June into incubator 1653 hours dry T = 36.5°C wet T = 29.5°C

23 June transfer #8 + #10 out of incubator 1200 hours dry T = 37°C, wet T = 28°C

Transfer #8 labeled 2 goes to ~~BD FW BL~~ ♂ + unmarked ♀ at marmot rockpile

	1	2	3	4
L	20.33	20.32	19.96	20.23
W	15.51	15.67	15.24	15.07
inc	hvy <sup>totally</sup> <sub>open</sub>	n.v.	hvy	hvy <sup>cracked</sup>

Eggs transferred, 4 warm eggs pick-up, flushed ♀

Transfer #10 labeled 4 goes to ~~BD FW BL~~

	1	2	3	4
L	20.56	20.59	20.59	20.28
W	15.48	15.60	15.61	15.38

inc med med/light med/light med

3 eggs and 1 dummy left in nest, 4 eggs taken.

Transfer #11 out of incubator 1330 hours dry T = 36°C, wet T = 28°C

2 eggs to transfer coldly 2 dummy. Go to pair just W of

last pair in singl. site. Into incubator 1550 hours <sup>dry T = 37°C</sup> <sub>wet - 28°C</sub>

	1	2	3	4
964	20.80	20.10	19.09	19.11
ss	15.39	15.45	15.02	15.25
inc	hvy	hvy	hvy <sup>cracked</sup>	hvy

flushed ♀ of 4 warm eggs, dry my at ppm  
next check at TR after #3 one chick ~1 day old 3 unhatched  
eggs flushed ♀. ~~#3~~



June 9  
1990

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Journal

Newelton 6300 ft.

Sayre Creek Field Sta. 3 mi NW Hobartville 23 June, 1990

23 June

Transfer # 4 Put up enclosure.

BL /  
BL / FW  
BL /

	1 (LL)	2 (RL)	3 (BL)	one unbatched egg
BL	2.25	2.10	2.35	
BD	2.12	2.0	2.27	
BW	2.21	2.14	2.09	
WL	6.43	5.72	7.34	
TL	0	0	0	
Tar	5.84	5.48	6.54	
Mid Toe	7.35	6.67	8.13	
Hallux	4.14	3.85	4.71	
Fat	some	some	some	
wt	3g	2g	3.5g	
age	2?	* (2)	2	
wolt	Downy/ eyes closed	Downy/ eyes closed	Downy/ eyes closed	

Collected 2 fledglings 77-96038 + 77-96046, ♂ visible  
♀ not heard 2 more fledglings in area

24 June

Measuring young of <sup>ah</sup> 1/10 <sup>FW</sup> <sup>TL</sup> hatched <sup>on Friday 22nd</sup> 2 days ago (there was another <sup>3 eggs</sup>)

	1	2	3	4
BL	2.20	3.09	2.97	2.50
BD	2.71	2.69	2.90	2.85
BW	2.08	2.92	2.53	2.28
WL	6.97	8.45	8.28	7.70
TL	0	0	0	0
Tarsus	5.90	6.81	6.59	6.92
middle	7.90	10.24	8.83	8.75
hallux	4.53	5.40	4.79	4.73
fat	some	much	some	some
wt	2.00 3.0	4.00 5.0	4.00 4.5	3.00 5.5
age	-3 (2?)	3	3	3

Molt

downy eyes closed downy downy downy  
when I found them it was ~120 hours and there was only 1 hatched. I measured them at 0700 hrs so they are 3 days old

2nd nest for this pair

Flushed ♀



Aug  
1990

Journal

190

Sucker Creek Field Sta. 3 mi NW Hobart Mill, Nevada Co., California, 6300 ft.

24 June

0800 hours observed ♀ at transfer #3 carrying nesting material.

Both she & male were "chipping" and ~~#3~~ "chipping" - indicative of fledgling but as yet no positive id on either fledgling they should have fledged a week ago

→ I think #6 east most pair

Measuring at Transfer #3 yesterday there was 3 eggs + one chick.

	1	2	3
BL	2.46	2.76	2.29
BW	2.72	2.42	2.20
BW	2.12	2.48	2.27
WL	7.16	7.46	6.31
TL	0	0	0
Tarsus	6.98	5.97	5.50
Midtarsus	8.00	8.74	7.40
hallux	4.44	4.56	4.34
fat	some	some	some
wt	<del>3.0</del> 3.0	3.58	3.0
molt	dowry	dowry	

+ 8c 2 days

Flushed ♀ off of 3 2 day young. This is still young on 2nd day 0800 hrs.

Reinserted dowry egg ~~weights may be~~ ~~Yours of 96 (too tight)~~

Flushed ♀ ~~BL BL~~ <sup>BL FW</sup> (Transfer 4) out of enclosure. 3 downy chicks removed un-hatched eggs - 0.848 hrs.

All eggs out of incubator 0947 hours dry T = 37°C wet T = 30°C

into styrofoam 6018 hours T = 37°C

Big Creek Reserve, 5 mi N Lucia, Monterey Co., California 4000 ft

1732 hours Transfer 8 + ♀ complete out of Styrofoam T = 32°C

Flushed ♀ off or, only 3 downy chicks at #8. Did not flush ♀ off of 9 fat eggs were sort of warm and were originally.

Individuals were chipping - put up enclosure.

Female was not on eggs at ~~#10~~ <sup>#10</sup> fat both she & male were in the vicinity. I removed 4 canary eggs and replaced with 4 transfer eggs. ♂ + ♀ chipping madly as I set up



10  
1990

## Journal

191

Big Creek Reserve, San Luis Obispo Co., California 400 ft

24 June

at exclosure. At transfer #11 there was no one around did not leave 5 gopher eggs. There were still 4 (empty) eggs in there. At transfer #9 I flushed 9 off of 3 dummers & heard ♂ say. I am pretty sure I put in 4 dummers - I do not know what happened to it. I decided not to use the Zayden transfer eggs at chick #11, - I feel at this point of the exclosures work I need some fuseline coated ground-larva. I am staying with Feynman tonight because the archaeologists are at main camp.

25 June

	Top of gopher at plus marked	Left leg marked	measured at 1017 hours
DL	3.90	4.35	
BD	3.40	3.91	
BW	3.18	3.48	
WL	24.48	25.08 22.71	
TL	21.68	22.25	
Tarsus	15.04	16.52	
Middle	17.51	19.22	
Wing	11.28	10.92	
tail	much	Much	
wt	15.58	15.0	
Adult	tail 0. 11.46 tail 1.58	tail 0. 9.56 tail 1.41	primary coverts have just broken sheath of this newly molted wing
Roundness	7.88	7.1 - 7.6 0.51	
Bended	77-960501 R DIRD	PP/ED	

Tyrannus H. S had 2 cold eggs incubating!

Parents at transfer #6 both caught in mist net

77-96052/OK m/wh

	DR/77-96053	RA 6R
BL	8.70	
BD	5.57	
BW	4.80	
WL	16.55	
TL	18.88	
Tar	16.72 16.86	
Middle	15.48 17.73	
Wing	14.98	
tail	much	
age	ad	
sex	♀ banded	
wt	17.0 g	
Roundness	11.90	
Adult	NO	

This is flying scale,



with J

1990

Journal

1992

Blue Creek Reserve, 5 mi N Lucia, Monterey Co., Calif., 400 ft.

2 July

All transplant nests empty! Everything quiet.

3 July

0500 hours Looking for fledglings at Transfer #6. Saw one banded adult heard it chirping with mate. No sign of fledglings. Very quiet.

 $\sigma$  could give only partial song without much energy. Stayed at Feynner's last night. He was supposed to arrive late from Santa Cruz but never showed. He is a Heineken drinker, Rum, Tequila and Red wine.

Picked up liquid  $N_2$  tank 2 days ago 10L. The only excursion that appeared tampered with was where PK/Fc used to be. At this nest the excursion was pushed up and nest cup tilted at 90° down toward side where excursion had been tipped. At all others the excursions were firmly in place. I believe I need to put on tops, to keep out Jays. Talked with Mark Reynolds on the phone last night. He said he had banded both transplants! But, unfortunately had broken one nestling leg so one has only 2 red bands no metal.

Found nest of pair in middle of favorite bowl

	left	right	both
--	------	-------	------

BL	3.53	3.56	3.40
BD	3.39	3.00	3.18
BW	3.52	2.77	2.99
WL	15.27	14.61	13.53
TL	0	0	0
Tar	13.72	11.26	11.62
midtar	14.76	15.45	14.03
halley	8.86	8.04	8.59
fat	SOME	SOME	SOME
age	~4	~4	-3
wt	8.50	10.00	8.0g
molts	downy eggs open 3rd 1° 5.61	0 3d 4.54	0 4.21
Rand	4.84	3.58	5.95

Fat excursion around nest and draped hardware cloth over the top. 2 hours later 1730 ♂ + ♀ were in the area with bills full of food.



Smith Jr.  
1960

Journal

193

Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif 400 ft

3 July

I saw what I thought was the ♀ going into enclosure feed north & west exit 1' from bottom of enclosure thru the fencing carrying a fledgling. I also saw a Scrub Jay in the vicinity!

4 July

Found nest <sup>(-3?)</sup> of ~~eggs~~ at <sup>PK</sup> Fowl's old spot no eggs but cup looks complete. Feigner said that Big Sur Inn has good pancakes + open for breakfast 0800 hours - 1100 hours, then reopen ~~at~~ 1630 hours for dinner.

Today I have seen 4 individuals throughout the study area with only one tail feathers or none, another bird appears to be missing body feathers.

5 July

Found 1<sup>st</sup> lay for three nestlings found on the 3rd.

	Both legs wanted	Left leg	Right leg
Band no.	77 96054/X PK/X	77-96055 X PK/X	77-96056 X PK/X
BL	3.56	4.03	3.87
BD	2.97	3.08	3.53
BW	2.72	3.18	3.21
WL	19.35	21.55	22.72
TL	1.85	2.75	2.92
Tar	14.56	14.08	14.08
Mid	15.09	17.10	17.23
Hollow	9.37	10.21	10.20
Fat	514	some	Much
age	5	6	6
wt	7.50	10.00	12.50
Molt	3rd 1° $\frac{0}{0.44}$ , tail $\frac{0}{0.42}$	$\frac{0}{11.42}, \frac{0}{0.90}$ 2ndary coverts + 11° covert broken sheath 1st 2ndary broken sheath	$\frac{0}{10.53}, \frac{0}{.69},$ 2ndary covert broken sheath
Round	4.91	6.03	5.82



3

K

July, 1990

opened

1994

Sagehen Creek Field Site, 3 mi N Whotan Mill, Nevada Co, Calif 6300 ft

6 July

Transfer #7 2 <sup>old</sup> day old chicks are unbatched egg

Bird No

77-96057/4 RD/RD

77-96058/1+ RS, RD

BL 5.08

5.05

BD 4.29

3.75

BW 3.81

3.67

WL 36.19

32.40

TL 10.12

8.84

Tar 18.55

16.33

Midst 18.08

18.04

Halley 12.09

11.58

fat Much

Much

age 9?

8?

wl 31d <sup>10.50</sup> 23.39, tail <sup>1.77</sup> <sub>0.77</sub>

<sup>7.46</sup> <sub>20.88</sub>, <sup>1.03</sup> <sub>8.44</sub>

Round 8.12

8.00

wt 16.0g

15.0g

yellow legs + feet

This nestling hopped out & was putting its cloacal tract over nest  
could not re-find it. Left other nestling in nest.

Transfer #9 33025+ legs hopped out but I retrieved

Bird No

77-96059/4 RD/RD

60/4 RD/RD

61/4 RD/RS

BL 5.37

5.40

5.61

BD 4.22

4.32

4.10

BW 3.69

3.94

3.92

WL 38.32

34.09

37.21

TL 11.05

10.30

12.76

TAR 17.62

17.76

17.87

mid 17.98

17.57

17.62

Halley 13.57

11.97

13.05

fat Much

Much

Much

age 11

11

11

wt 15.24 4.29

<sup>12.73</sup> <sub>22.97</sub> 2.51

<sup>14.08</sup> <sub>24.76</sub> 3.22

wl 25.41, 10.41

<sub>9.06</sub>

<sub>8.91</sub>

round 9.66

11.08

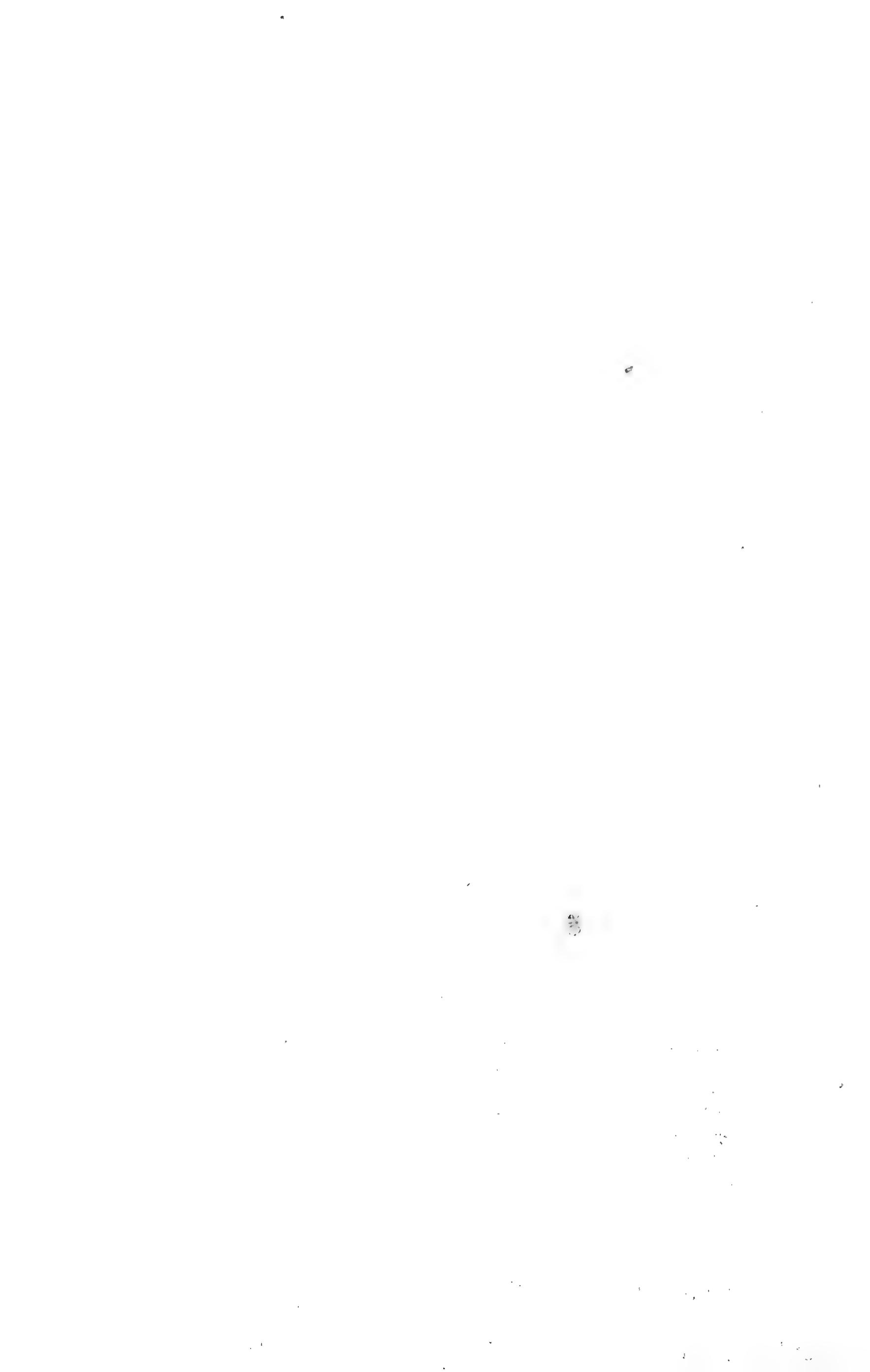
8.94

16.0

16.09

16.1

one hopped  
out  
2 still



## Journal

195

Sugden

6 July

Transfer #8 abandoned, one egg was on ground next to nest  
 2 unhatched eggs in nest and 1 egg with 1 cm<sup>3</sup> hole and empty left in  
 nest

Transfer #10 ~~fw~~<sup>RD</sup> ~~BC~~<sup>BC</sup> 2 nestlings one downy egg left

	Right	Left
--	-------	------

BL	3.97	3.65
----	------	------

BD	3.34	2.90
----	------	------

BW	2.86	3.09
----	------	------

WL	19.99	14.67
----	-------	-------

TL	2.82	2
----	------	---

TAR	13.92	14.11
-----	-------	-------

MID	19.66	16.41
-----	-------	-------

hallex	10.40	9.44
--------	-------	------

fat	much	much
-----	------	------

wt	11.50	9.00
----	-------	------

wolt	1° 8.40, $\frac{0}{0.98}$	1° 3.88, 0
------	---------------------------	------------

round	6.02	3.44
-------	------	------

age	4	3
-----	---	---

yellow cast to legs



17

1990

## Journal

196

Sagehen Creek Field Sta., 3 mi NW Hobart Mills, Nevada Co., (alt 6360 ft)

6 July Transfer #11 3 nestlings! Should be only 2, one of the dominoes hatched! One of the chicks is especially small and looks almost albinos

	♂ banded	BK/FW BK/ER	D.R.
left 1	RT 2		3 albinos
BL	3.50	3.51	2.63
PG	3.09	2.71	2.47
PW	2.81	2.99	2.63
WL	14.46	19.91	8.17
TL	0	0	0
TAR	12.01	31.88	13.72
MD	16.90		
Hatch	10.19	10.61	4.77
fat	much	much	slt
wt	10.0	13.0	4g
scud	3.00	4.24	0
age	3	4	+1
Molt	3/73 3rd l°,	7/75	dowry

The unhatched egg is hatched one with a rapid profile and measures L 20.80 w 15.65 could be BK/FW's egg?

Not chick at transfer #6 certainly most poor  
 ♂ banded OR/PW YL/PO, ♀ unbanded first  
 responded to pishing by flying in and  
 chirruping, nest empty.



Smith, J  
1990

journal

197

Sagehen Creek Field Station, 3 mi NW Hobart Mill, Nevada Co., Calif 6300 ft

6 July

Nest check at Transfer #4 ♂YBL ♂Y few were empty adults very agitated, responded to ~~his hui~~

7 July

Found 2nd nest of pair with transfer #3. Also thought I saw fledgling chase male.

2nd clutch 3 warm eggs labeled 1

	1	2	3
C	9.87	20.64	20.01
W	15.34	16.06	15.72
inc	hvy	hvy	hvy

into incubator 1010 hours wet T= 30°C, dry T= 37°C

collected Transfer chicks at #3, band no.'s  
77-96042 and 77-96043.

Nest checks at transfers #7 + 9 nest cups empty + parents agitated.

I saw ♀ of  $\frac{1}{2}$  YBL  $\frac{1}{2}$  BL carrying food, perhaps feeding beggy fledgling.

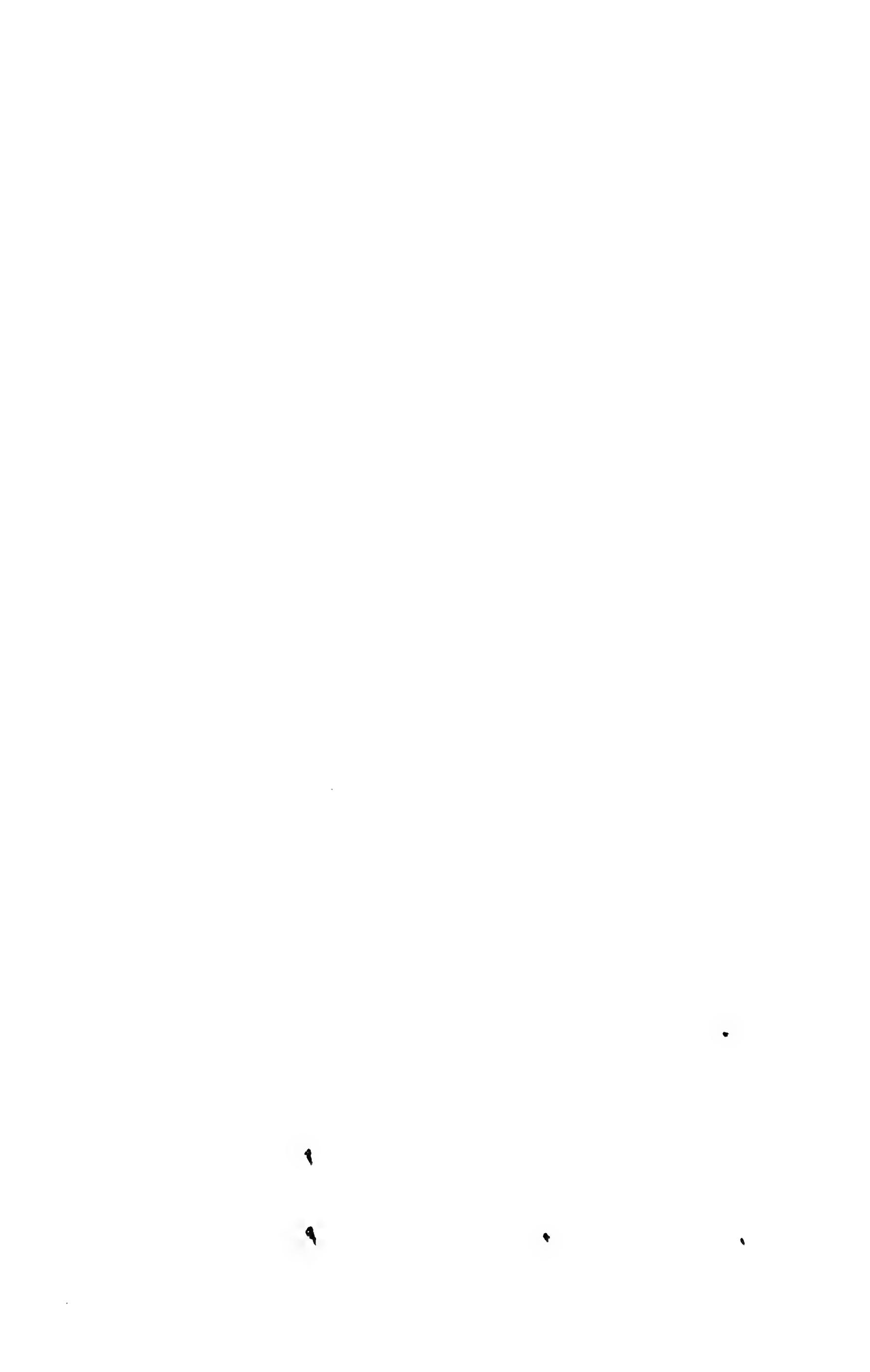
Saw copulation at pair just W of transfer #7.

8 July

Heard fledgling fuzzy at transfer #4 ( $\frac{1}{2}$  YBL  $\frac{1}{2}$  BL ♀).

$\boxed{\text{FLY BL BK}}$  3 feeding fledglings with unmarked ♀.  $\boxed{\text{RD GR}}$  3 seen, but no sign of ♀.  $\boxed{\text{FLY BL}}$  feeding fledglings with unmarked ♀.  $\boxed{\text{YL OR BK}}$  ♀ feeding fledglings.

2nd clutch of pair with transfer #3 out of incubator 1656 hours  
dry T= 36.5°C, wet T= 29°C. To be put back in tree nest with  
a 1x2" exclosure by 4".



10th, 1990

Journal

198

Sycamore Creek Field Sta., 3 mi NW Hobart Mill, Nevada Co., Calif. 6300 ft

8 July 2nd clutch hatched day 2 nicely, 2 eggs for  
BYEW <sup>e0</sup>/PK?

	BK	RD
BL	2.23	2.21
BD	2.58	2.41
BW	2.08	2.34
WL	7.16	6.52
TL	0	0
TAR	6.32	3 13.59
MFL	7.73	
hatchy	4.56	4.56
wt	3.5	2.5
fat	some	some
age	1	1
molt	long eye closed	→

dog <sup>was</sup> ~~winged~~  
rightly

Heard fledglings at far east S territory.

9 July At Transfer #7 saw parents carrying food and chipping, chicks must have survived early fledgling.

3 warbler eggs of pair just S of transfer #7, ♂ is banded but can't tell what; this pair was part of transfer #5

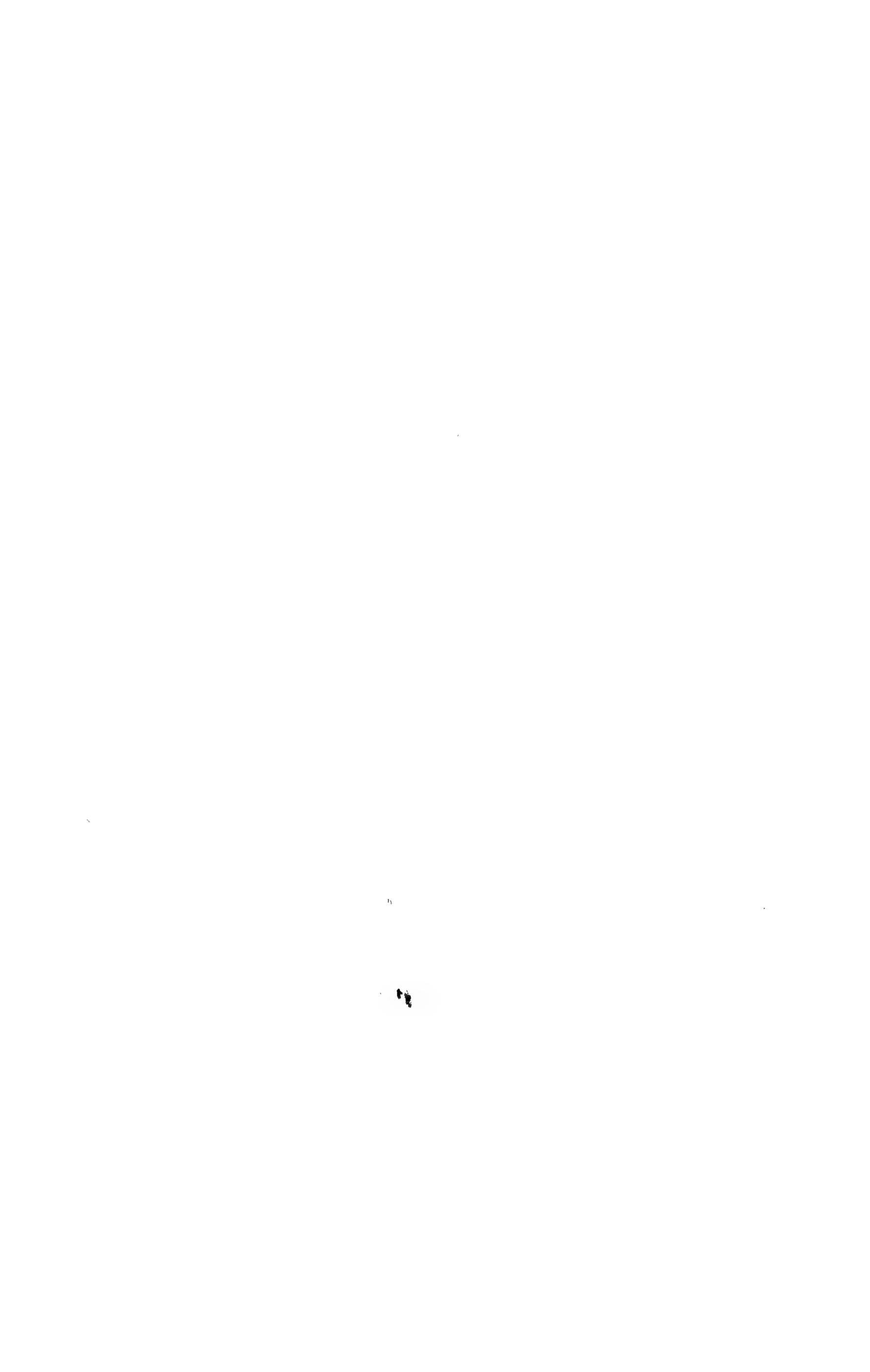
Fwd up  
get lost  
1 2 3 (new bird?)

left ♂ C 20.14 20.31 15.26

15.09 15.61 15.33

right right right

saw them copulate yesterday. will switch to pair  
that had transfer #1



Smith, J  
1990

Journal

1990

~~Sycamore Creek Field Station, 3 mi NW of Start Mills, Nevada Co. Calif 6300 ft~~

9 July Transfer #12 - 3 warm eggs, flushed ♀, put up incubator

	1	2	3
L	21.11	19.72	20.56
w	15.14	19.78	15.14
inc	light	light	light

in incubator at 103° down  
dry T = 36.5°C  
net T = 28.5

perhaps her 3rd ~~nest~~ clutch

Boundary Transfer 10

left leg 1

right 2

Bud no 77-96062/~~x~~ R<sup>D</sup>/R<sup>D</sup>

77-96063/~~x~~ R<sup>D</sup>/R<sup>D</sup>

BL 4.72

4.85

BR 3.70

3.81

BW 3.28

3.97

VL 31.23

26.60

TL 10.08

5.15

Tar 18.98

peppermint nest

18.00

M.d 18.19

17.60

Wt 12.47

12.40

just some

some

wt 14.50 gms

13.50 gms

Age 7

+6

molt 3rd P  $\frac{2.28}{19.36}$ ,  $\frac{0.89}{6.72}$  tail

$\frac{1.10}{14.68}$ ,  $\frac{0}{3.61}$

Round 3.02

4.28

yellow cast to fat

*accompaniment*

17, J  
1990

Ground

200

Sycamore Creek field station, 3 mi NW Hobart Mills, Nevada Co, Calif 6300 ft

Banded transfer # 11

	Left 1	Right 2	3 (abnormal)
Banded 77-960694 K/RD		65/4 10/RD	66/4 Wk/Wk
BC	4.02	4.33	3.74
BD	3.55	3.54	3.40
BW	3.11	3.32	3.46
WL	27.30	31.43	17.65
TL	5.52	7.78	0
TAR	17.33	{ 35.18	13.01
MID	-18.66		13.96
HULL	91.57	12.24	9.63
but	Much	some	some
wt	16.0 gms	17.50 gms	11.5 gms
age	6	7	4
nest	3rd 10 15.77, 0 2.98	4.16 18.11 10, 5.00	2.36,
Round	4.25	3.92	3.74

Transfer #12 out of incubator 1257 hours dry T = 37°C

wet T = 28°C, abd styrofoam T = 28°C

New Sycamore phone # 916-582-0537

White Creek Reserve, 5 mi NW Lodi, Monterey Co, Calif 4000 ft

Eggs out of styrofoam T = 23°C at 2006 hours

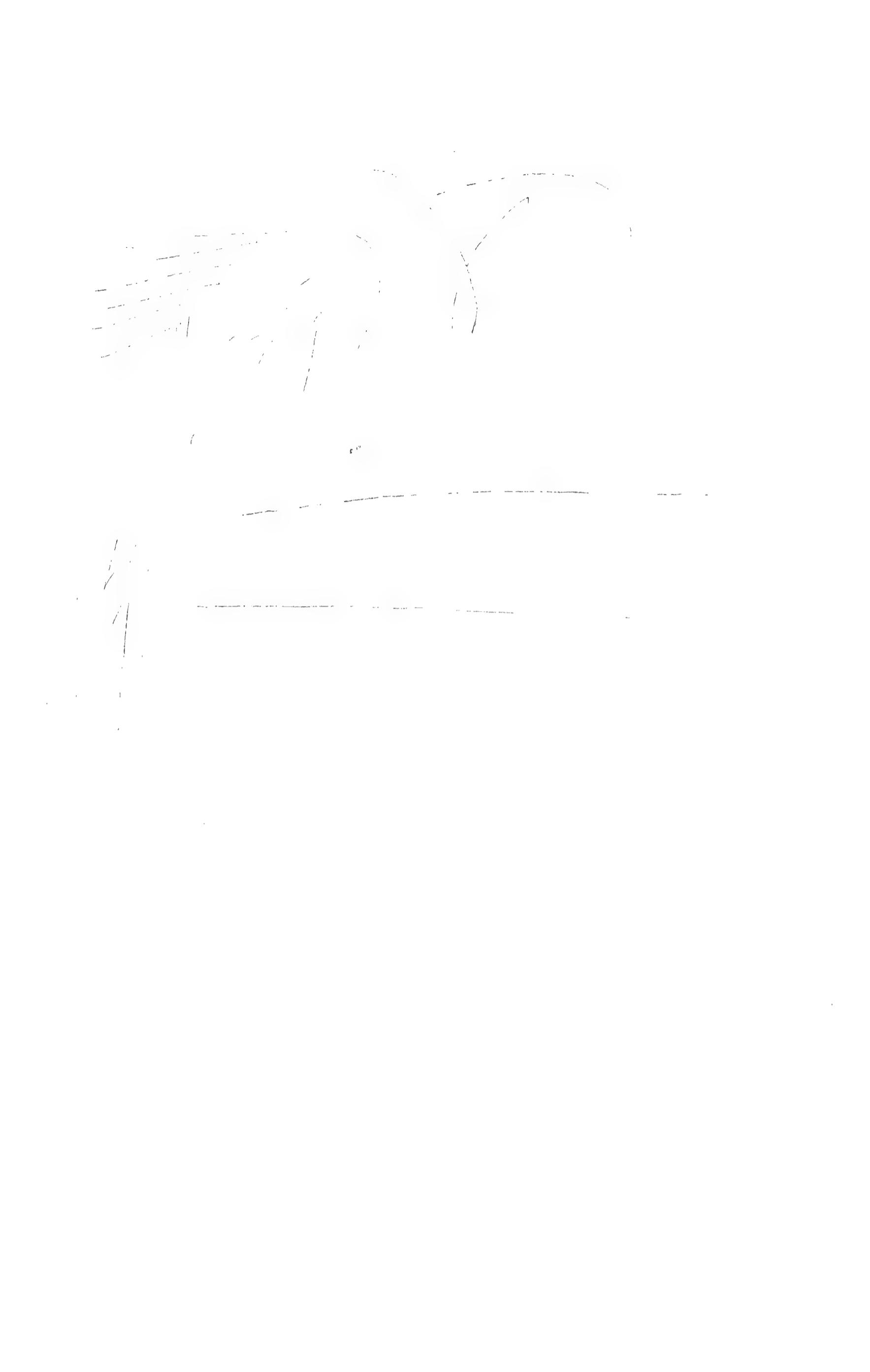
into incubator dry T = 49°F, abd wet T = 84°F

Nest eaten so no transplant

14 July Sycamore Creek field sta. 3 mi NW Hobart Mills, Nevada Co, Calif 6300 ft

Collected 77-96045 K/R of transplant #4. Seemed to just

still hunkering down in the willows. Found and went up



July 19  
1990

Journal

201

Sycamore Creek field station, NW Hobart Mills, Nevada Co., Calif. 6300 ft

14 July

DR/FW 14/90

♂, flushed ♀ off of eggs did not approach nest.

15 July

♀/FW 14/90 is feeding transplant #6 fledglings 40' ds. Egg 1st nest.

Transplant #11 had only a tarsus with 2 red bands left in it.

Parents agitated. ~~Transplant~~ No sign of possible fledglings

Transfer #10 nest empty, parents agitated chipping in the area, did not see them carrying food or chipping.

Second nest of DR/FW 14/90 is empty except for one unatched egg.

2nd nest of DR/FW 14/90 ♂ + unatched ♀, did not flush ♀ but eggs seen were labeled 2

	1	2	3
L	19.59	19.81	19.64
W	15.57	15.95	15.73

put up 1x2" x 8' x 12' dome w/ Aviary coop top.

Started to rain, let ♀ sit on 3 domes & put eggs into incubator at 37°C, net = 30°C. This is 1700 hours

3rd nest of pair in between DR/FW + 14/90 at east end of study sta. Put up 2x4 x 8' enclosure with no l.d., flushed ♀. She also has 3 active fledglings in the area. Time = 1700 hours labeled 1

	1	2	3	4
L	19.97	18.31	18.81	19.08
W	15.50	15.07	15.46	15.16

Out of incubator 2000 hrs, power outage back to nest, switched switches (metal fastest) went to DR/FW 14/90



July, 1990

Journal

202

Sycamore Creek Field Station, 3 mi NW Horsethief, Nevada (elev. 6300')

17 July

Banding nestlings (her own) at pair source of transp #3.

	1	2	3
SL	5.19	5.18	4.83
BP	3.66	3.72	3.87
BW	3.85	4.17	3.77
WL	32.88	34.66	35.07
TL	5.39	8.67	8.22
Tail Molted hatchy	19.83 20.65	19.29 19.51	19.37 19.43
fat	MUCH	MUCH	
age	8	8	8
wt	18.5	17.5	19.5
Molt	$\frac{2.57}{19.26}$ 3rd, $\frac{0}{4.45}$	$\frac{5.20}{21.56}$ 3rd, $\frac{0.43}{5.93}$	$\frac{2.54}{21.67}$ 3rd, $\frac{0}{5.71}$
Rand	4.63	5.99	5.37
Radius	77-96101 6 $\frac{1}{2}$	77-96102 6 $\frac{1}{2}$	77-96103 6 $\frac{1}{2}$

16 July

Eggs break in incubator, flushed ♀'s off will return later at 1800 hrs. T = 1056 hours now

dry T = 37°C, wet T = 29°C.



with, J  
1990

Journal

203

~~Sagebrush Field Station, 3 mi. NW Hobart Valley, Nevada Co., Calif. 6/30/90.~~

26 July Nest # of  $BL/BL$   $FW/BL$  with 2x4" enclosure, with w/in population transfer. 3 unhatched eggs + one possible combed or really fat Song Sparrow chick Banded 1431-14523

BL 4.09

Tarsus 11.34

BD 3.5

fat some

BW 3.38

ge 5

WL 29.37

wt 17.0 gms

TL 1.02

mol 1<sup>o</sup>  $\frac{0}{11.01} 1^o$ ,

TAR 18.13

Mid 18.13

Caught female at this nest  $DR/FW$   $GR/42$  Band No. 77-96104

BL 8.63

Tarsus 13.84

BD 5.72

fat slt

BW 4.24

age ad

WL 59.55

wt 20.0 gms

TL 60.13 worn

mol no

TAR 18.99

Round 8.44

Mid 18.23

2 chicks and 2 unhatched eggs at w/i prop transfer just after (E) of  $RD/FW$  ad w/g  $BL/FW$ . This nest has young of East most pair  $DR/FW$

	left leg	right leg
BL	2.34	2.26
BD	2.80	2.55
BW	2.80	2.10
WL	7.55	6.00
TL	0	0
TAR	15.41	5.43
mid	6.80	
H4	4.94	4.26
fat	slt	
wt	4g	2g
Molt downy		downy



July 19  
1990

Journal

254

Sayre's Ranch Field Station, 3 mi NW Hibbet Mills, Nevada Co., Calif., 6300 ft

26 July	Caught ♀ at this nest	W/FW $\frac{9}{10}$ BK band no. 77-96105
	BL 9.25	Hal 15.30 ↳ measured nestling on page 203
	BD 6.08	fat set
	BW 5.13	age ad
	WL 61.90	wt 20.0g
	TL 63.59	molt no
	Tar 19.33	Round 9.94
	Mid 19.76	

Early nest pair	♂ OR RT	♀ OR left	, nest has 2 eggs + 2 chicks
BL	3.62	3.59	
BD	2.96	3.58	
BW	3.33	3.57	
WL	12.29	19.65	
TL	0.0	0.70	
Tar	9.74	12.94	
Mid	13.49	16.11	
Hal	8.20	9.08	
	fat some	much	
wt	8.5g	12.5g	
age	3	4	
molt	3.11° $\frac{1}{2}.50$	7.721°	
Round	3.87	-	

29 July Banded nestling at  $\frac{9}{10}$ /fw  $\frac{8}{10}$  forgot calipers, so will return next day to measure. Broke leg of 3 day old nestling, tried to fold it up and stick it into my pocket - AFGH!  
Banded it 77-96106



1

uth, J  
1990

Journal

205

~~Togach Creek Field Station, 3 mi. NW Hooper Mills, Nevada Co., Calif 6355 ft~~

29 July Nestlings of Wh/FW at nest of OT/FW, now only one nestly.  
Nestly with broken leg is gone.

Band no. 77-96107 wh

BL 4.99

BD 3.66

BW 3.65

WL 31.95

TL 7.34

TAI 18.11

Mid 19.14

Haf 12.91

fat much

wt 17.0gms

molt 2/20.23 3rd 1<sup>o</sup>, 0.30/5.30 tail

age 7

Round 4.93

Bandj. OT/FW's nestly at Wh/FW nest.  
no color seen, too young for notes

left leg has color

77-96108 OR

3.96

3.14

3.72

17.03

0

13.24

16.57

9.15

some

5

11.5

Band no. OR OR

BL 3.29

BD 3.27

BW 2.99

WL 10.44

TL 0

TAI 10.14

Mid 13.44

Haf 7.63

fat some

age 4

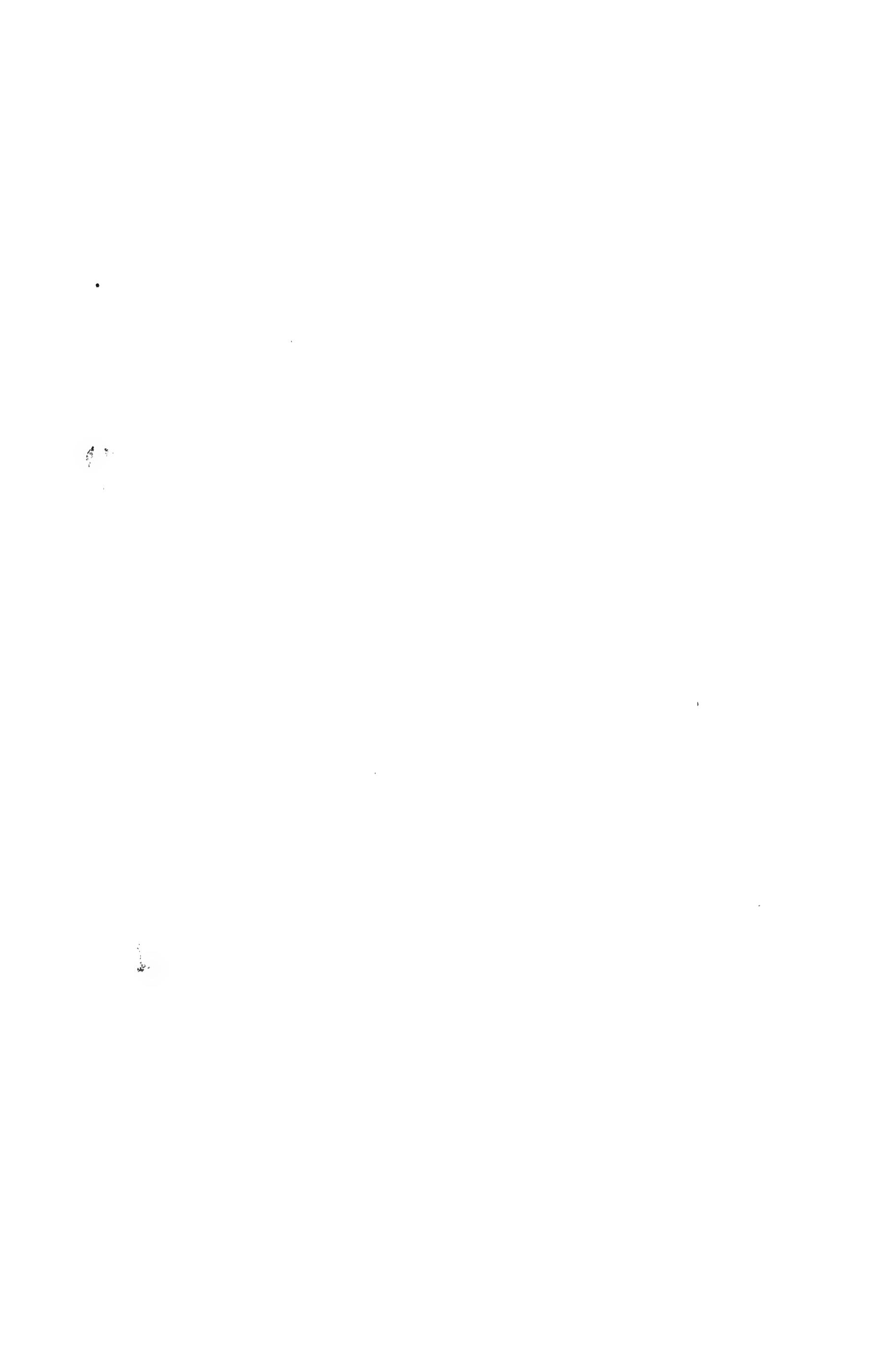
wt 8.0

Molt 9.94 1<sup>o</sup>, otail

Round 3.73

0/4.50 1<sup>o</sup>, tail 0

4.38



Guth, J  
1990

206

Sycamore Creek Field Sta. Sec: NW Hobart Mts, Nevada Co., Calif

6800ft

9 Aug Caught mate of BYFW ♂ ad last 3rd clutch

BL 9.29

BB 5.15

BW 4.45

WL 57.31

TL 62.15

Tan 19.04

mid 17.79

hal 14.29

fat set

wt -

age ad

round 5.54

molting none, feathers out on skull

77-96109/~~xx~~ GR PROR

2 young. one unhatched egg

BL 4.11 4.55

BD 3.62 3.66

BW 3.52 ~~3.69~~ 3.62

WL 28.23 34.85

TL 3.42 8.79

Tan 16.67 19.65

mid 18.53 18.62

hal 11.48 11.47

fat some much

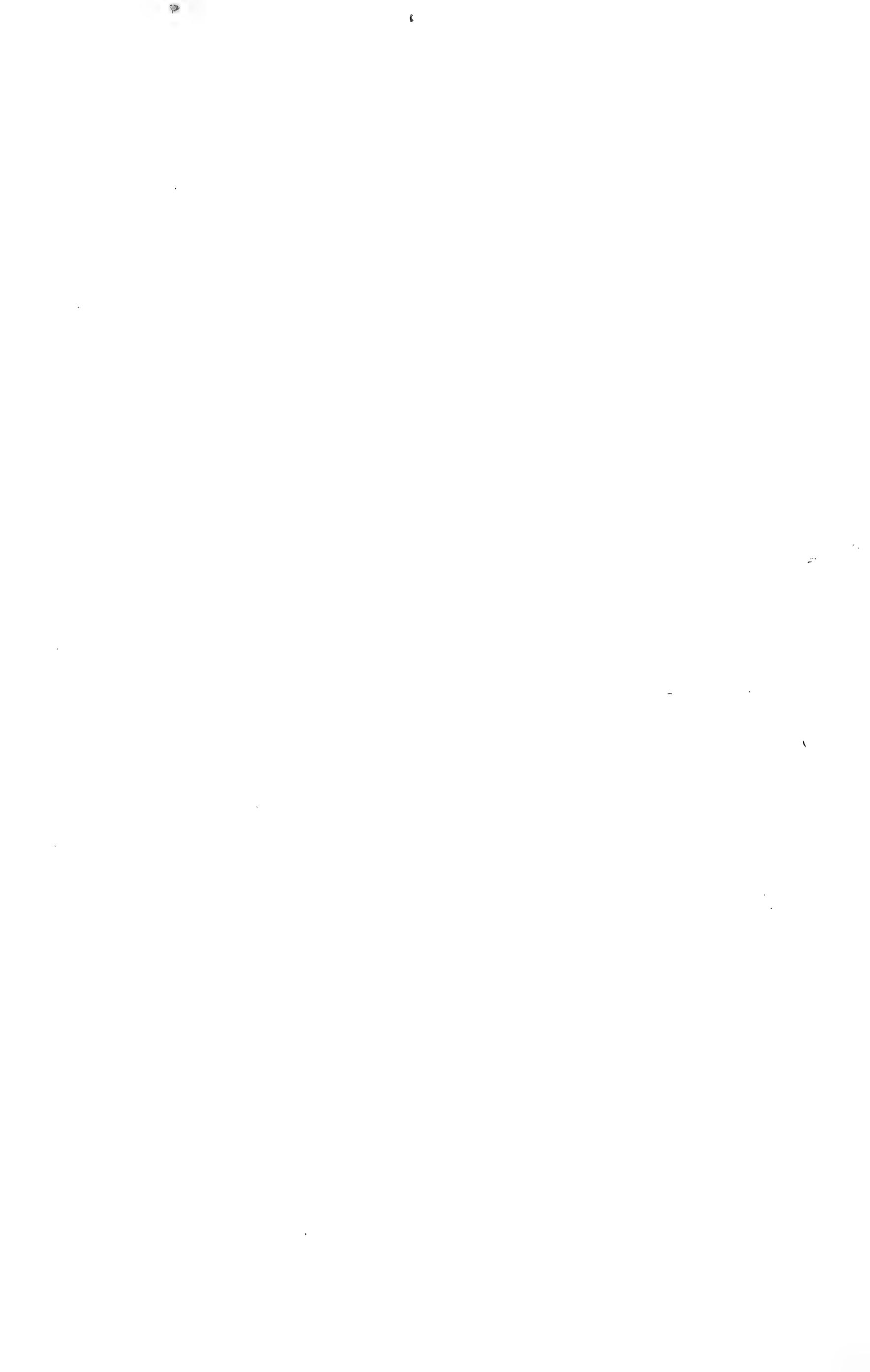
age 6 7

wt - -

molting  $\frac{1.82}{15.72} 1^o$ ,  $\frac{0.36}{2.51}$  tail  $\frac{4.22}{21.91} 1^o$ ,  $\frac{0.65}{6.29}$  tail

round 3.77 6.45

Banded 77-96110 BL 77-96111 BW



J. I. Smith

Journal

1991

Calif: Big Creek Reserve, Monterey Co.  
Sagehen Creek Field Station, Nevada Co.



10th, 9  
1991

Journal

207

Bix Creek Reserve, 5mi N Lucia, Monterey Co., California, 400 ft. elev.

9 April

Arrived last night at 11pm left Berkeley after setting up a fingerpatty slot at ± 730 pm. Slept in late this morning ± 830 hrs. Met Feynman at the lab.

He said he had left a tractor up at the highlands camp so I offered to drive him up there. We spent the morning driving the roads that goes S from the highlands camp. Canogas Trail ~~is~~ head is found right at the boundary with the Packard property it goes off E down slope then the chappard ad then rises again. Feynman says it goes to a large waterfall. The weather station is on the road that heads N just 20yds <sup>NOZ</sup> ~~off~~ trailhead for canogas.

If you take the road beyond the reserve onto the Packard property you go thru a thick grove of Redwoods - there is a strong spring at a bulldozed area for retreats in the 1960's. Beyond that you come to a clearing with an old well which is called Franchamis cotic

Feynman said an old Portuguese man used to live there. Lots of flies + hot in the summer. Down the road to the weather station if you continue you dead end into site of new research cabin. Feynman says it will be an open screened-in cabin for summer archeological workers. Lots of pig wallows.

Left Feynman at highlands camp at 1330 after a lunch of quesadillas at his place. Traveled along the W road to Packard property. Heard a few sparrow but nothing serious yet, seems very dry!



10th, J  
1991

Journal

20°

Big Creek Inn, 5 mi N Lucia, Monterey Co., Calif. 400ft elev

19 April

I arrived last night about 9<sup>30</sup> pm. It was cold and foggy. Moon is crescent. Seas are very calm today in comparison to last weeks Hustling NW winds.

Last week there were harbor seals hauled up on the beach.

Today there is only one pup - no sign of any adults I'm a little concerned for its safety. This weekend is the Laguna Seca motorcycle race - terribly noisy and lots of fast bikes. Today Feyner + I went to Gorda to see the Elephant Seals. There must have been 100 hauled up on the beach. The big ♂'s were mostly fighting in the shallow surf while the females roared like so many hot dogs on the beach. Gorda is about 17 miles S of the reserve along highway 1. Access to the seals is via a trail across from the BP gas station/Bj Sw Jude Co. At that pt there is a wide pull over area and the seals line the beach 400 ft below. You can get right down to the beach and touch the seals! It smells like a farm and they are quite boisterous. Lowd low ~~and~~ barking noises.

In Pacific Valley there is a nice restaurant. Feyner says the apple pie & blueberry pie is great + they have excellent pancakes.

Three sea otters are visible in the cove at Big Creek. Brandy's cornucopia on the rocks. It was cold all day today until 3pm then it got cold and windy at 5pm. Very low tide this morning. No whales yet this year.



2, J  
1991

Journal

209

~~Birch Reserve, San Luis Obispo Co., Calif. 400 ft elev.~~

19 April Notes on last week's walks. Took a walk to Boronda Canyon

Very pretty & steep with thin redwood canyon, granite & oak woodland. Took 2-2½ hours of leisurely pace to arrive at Boronda a grassy nook surrounded by oaks and a steep canyon. Not too spectacular and seems claustrophobic to me, but I bet the stars at night are spectacular especially in August! I got up to Boronda & took the Easterly trail of the Interpretive trail (Feyrer says the W side is less steep) at about marker 227. There is a sign indicating a branch off to Boronda. At this pt there is a serpentine outcrop and it is the site of mountain lion kill four last summer. This pt marks the end of most of the steep part of the going to rest of the trail in the open puppy + lupin - dotted grasslands. Campsite has cement grill + picknick picnic tables, no latrine or water. Head down slope + N.E. out of Boronda is the trail which will lead to the hot springs. ~100-150 m out of canyon there is a sign pointing south, but the big trail continues on E. The trail south is the correct trail back to camp. The easterly trail takes you to a deep redwood canyon with a fresh running spring; all day the trail an orange sign indicating an ecological study area. The right trail is only 1 person wide + marked with the ribbon. At the bottom of the canyon is the remnants of an old homestead (a fireplace + picnic table) just across the stream and up slope 25 m is the hot spring (~95°F). I left station at 11:30 AM



11th / J  
1991

Journal

210

Bijahak Reserve, San Lucia, Monterey Co., Calif., 400 ft elev.

19 April

arrived Bodega at 1400 hrs and am w/ one bear  
in the hot spring was out on the canyon road at 1600 hrs  
Met Farmer (working for me) and had dinner together.

On the 11<sup>th</sup> of April (my 30<sup>th</sup> birthday) I took the trail to  
Canoas Falls. The trail head is 1 mi S (along the road)  
from the highlands camp. Just at the border of the Reserve  
and the Packard property. The trail is steep and takes  
~ 35-40 minutes at a leisurely pace - to get to the falls.  
If you take the upstream trail it is about 20 minutes  
(15 minutes maybe). The falls are spectacular. A four story  
drop into an azure pool and then a 12 ft drop with another  
pool. Very odd. Upstream the view is only on the river  
and the canyon - very nice rushing water but no falls.  
At the base of the trail there is a couple tachers & I think  
there is a grate. Very little area for tents, but lots of  
great pools for diving. A bolted trapfisher (♀) has  
staked out the area. The best view of the falls is  
from the opposite side of the creek from the trail. Climb  
up on the rocks and sit in the notches to B, leaf angle  
truly spectacular view and spray from the falls. The ground  
journey is hard and takes ~ 1 hour ~~downhill~~ I left the  
falls at 1500 hrs, took the trail to the upstream and was  
back out at 1630 (a little winded).

Still not much sprawn activity.



10th, 1991

Journal

211

1991

~~Big Creek Reserve, Gaviota, Santa Barbara Co., Calif. 93110~~

20 April Rained all night. Very wet and windy.

About 2pm this afternoon the fog turned off along the coast but not inland. I walked the west side of the interpretation trail. about a 45 minute walk along the Interpretation trail from the station rdg is a beautiful westerly overlook to the Pacific. A nice place for a picnic. This comes at marker I-14 along the trail. Further down the trail at I-18(?) is a branch to Lower Dolan Ridge. This is about a 20-25 minute walk up a ridge to overlook to ocean ad highway 1. lots of grassy hillsides ad wildflowers, Baccharis ad poison oak. Back along this trail to finish the Interpretation trail. You wander down into a deep dark Redwood Canyon with small creek. Very quiet. Took the Davy Canyon trail for about 20 minutes - not very exciting just another deep redwood canyon. From interpretation marker 221 to 26 you climb back up the canyon steeply. after #27 but before 28 you get the Boronda Camp Trail. With all these extra side trips the 5km Interpretation trail took me almost 4 hours at a leisurely pace to return to the trail.

Very cold, wet + windy all day - very big tide. The seal pup that was on the beach last night was still there when I returned tonight at 1930 but it soon went back to the water only to return to the beach ~20 minutes later -- seems all quite normal.



nth, J  
1991

1st  
Nestlings!

Reserve Journal

212

Bij Creek Reserve, 5mi N Lucia, Monterey Co., Calif. 400 ft.

14 May

Found nest of pair near Feyneis latrine. 3-2 day old young. Set up 'x 2' enclosure - both adults would go thru.

Red loft  
77-96115

Blk loft

Red Right  
77-96114

BL	3.06	2.84	3.08
BD	2.64	2.41	2.79
BDL	2.12	2.63	9.21
WL	<del>7.62</del> 10.12	9.12	0
TL	0	0	0
Tarsus	8.29	8.17	8.94
metatars	11.25	10.10	9.82
Hind	6.27	4.93 (?)	6.47
wt	5g	4g	5g
Fat	-	-	— not taken
Age	2	2	2

Found nest of pair N all down slope from storage water pipe near latrine. Put hardware cloth and plastic net with 1" holes - ♀ deserted.

Had only 3 eggs, I'm not sure she had begun incubation.

15 May

Both parents were feeding young thru enclosure this morning



Jh, J

1991

## Journal

213

Hij Creek Reserve, 5 mi N Lucia, Monterey Co., Calif 400 ft. elev

16 May

Banding Parents at Feynne's latrine, will take blood samples. The young will be banded on

Saturday the <sup>18th</sup> ~~18th~~

FWS	77-96112	77-96113
Band color,	$\frac{BL}{FW}$ <del>BB</del> $\frac{OR}{BK}$	$\frac{BL}{FW}$ $\frac{BL}{BL}$
BL	8.82	8.43
BD	5.31	5.28
BW	5.26	5.05
WL	62.64	53.61
TL	64.49	60.12
Tar	19.16	18.83
width	16.13	17.62
width	14.00	14.99
fat	slt	some
sex	bad	♀ broad patch
wt	21.5g	18.0
RomRom	7.26	7.71
molt	no	no

Blood sample .4ml Buffer to .100 Blood



June 19  
1991

Journal

214

Bigs Creek Reserve, San Nicolas, Monterey Co. Calif. 400ft elev.

77-96115

77-96114  
Red Right

16 May

Red Left

BIT left

BL

3.62

3.15

3.40

BD

3.05

2.93

3.06

BW

2.72

3.40

3.59

WL

14.79

14.72

15.0

TL

0

0

0

Tar

13.71

0

14.51

width

14.31

25.43

13.19

wt

108

88

8.38

Fat

much

much

much

Age

4

4

4

108

no 1f

15+<sup>0</sup> 5.<sup>0</sup> 23

0  
4.52

10<sup>0</sup> 5.<sup>0</sup> 4

These are the young of 77-96112 + 77-96113

17 May

0947 hrs next observations it is tremendously windy ~25-30 mph! Cold ~50°F and sunny not much else to do so I thought I'd watch. Flashed adult off 3 begging chicks at 0900 hrs.

1001 adult left nest 1028 ♀ returns w/ food  
one leaves at 1029, 1030 ♀ w/ ad ant  
1032 ♀ w/ w/ full full

what is in the full is black. staged obs at 1049



March 19  
1991

Journal

215

Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif 93931

18 May

leg color

Red left

Blk left

Red Right

Band no

77-96115

77-96114

Bandcolor

~~Blk~~ FW ~~Blk~~ BL

~~FW~~ ~~BL~~

FW BL

BL

3.79

3.59

BD

2.94

3.02

BW

2.67

Chick is  
missing.

3.40

WL

16.51

17.04

TL

0

He was here  
yesterday.

0

Tar

0

0

Micta

28.52

28.29

Hatch

9.40

9.56

wt

0.54

9.0g

fat

slt

slt

Age

6 days

6

Band

1.62

2.09

molt

3rd 1° 7.73

7.97

Blood sample

2ml buff + 50ul blood

Adults were feeding - yesterday saw both in vicinity of nest.  
It was overcast, windy + cold for 2 days now.

23 May

All young gone at <sup>BY</sup> FW nest. ♀ <sup>BL</sup> FW <sup>BY</sup> BL observed  
flying now nest + 26m up slope (E) from the 1st  
nest.

Egg of ♀ who deserted 617 of plastic mesh at Feyers woodpile

L 19.29

10.71

18.82

3

} 1st clutch

W 14.74

15.74

14.72

3



nth 19  
1991

Journal

216

Big Creek Reserve, San Lucia, Monterey Co., Calif 400 ft. elev.

25 May

3 eggs of ♀ on research site with new enclosure  
eggs were incubated T ~ 99°F dry at 87°F wet bed  
for 36 hours

	1	2	3
L	19.49	19.66	18.64

w	15.98	15.32	14.07
---	-------	-------	-------

2 eggs heavy; 1 ac, one is medium

← nearly hatched  
1 juv al next  
was eaten juv.  
pets. com. Feyne.

<sup>30</sup>  
~~26~~ May Sayre Creek Field Sta. 3 mi N Hobart Mills, Nevada Co., Calif

5 am only 2 ♀'s out of 20 with nest building material  
The others are not doing much.

5 June

Big Creek Reserve, San Lucia, Monterey Co., Calif 400 ft

arrived last night with Jeff Stobaugh (his first trip). We  
arrived about ~~10~~ 2230 hrs. Played with Bernie's camera  
in the trailer. Roll #1, Roll #2 was taken during the  
afternoon at the nest F=3, Speed = 125 for all 27 frames.

Tried to put up enclosure with hardware cloth bottom but female would  
not accept it for 30 min. I took it all away - she went  
back and at 1800 hrs I put up the old standard 1" x 2"  
enclosure. I did not wait for her to return. Blue tailed  
pier at Feyne's 1st & 2nd nest. She is building a new  
one on the E side of the road upstream from the last.

Set the camera up at a nest in Feyne's back yard  
near tool shed. 3 ~ 2 day old young.



Th, J

1991

Journal

217

Big Creek Reserve, Sni N. Lucia, Monterey Co., Calif. 400 ft elev.

6 June

3 cold dead chicks at the camera nest at 0700 hrs

2 of th chicks were bloody - perhaps the adults were pecking them to pause them. Both adults ev. dent, ready ad focused on the nest. It would appear that the ♀ would not food the chicks with a red light.

The camera took no shots b/c the duck tape came loose over the shutter. Pickled ad measured the chicks.

Found nest of pair just south of the track in Feynman's back yard, did not look in.

Tried to set up enclosure at rear latrine birds but ♀ would not accept the plastic flashy! Her eggs are ready to hatch.

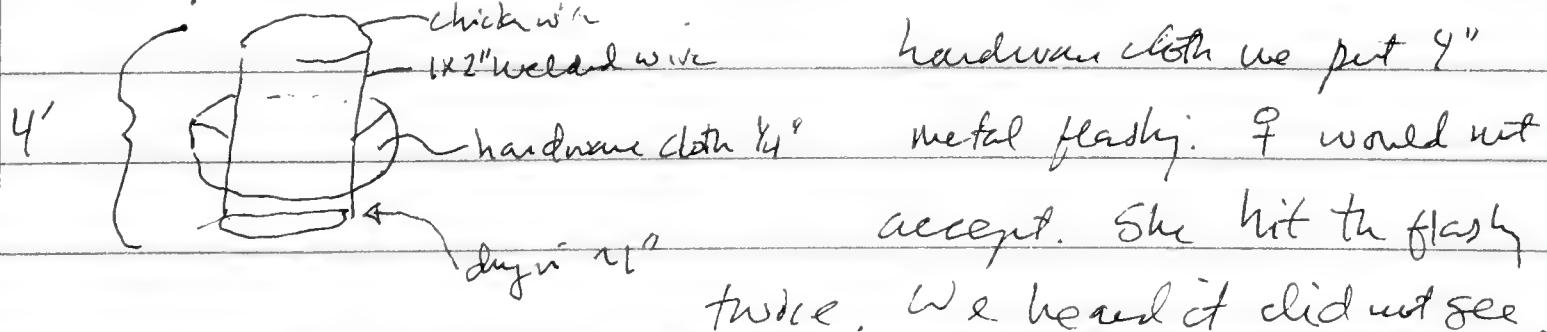
Saw ♀ near track ferns w of pup carrying nesty material. Jeff + I thought we saw the ♀ put east of her with food & fecal pellet.

Found nest of ~~nest~~ California Thrasher + Red-tail Hawk (2 juveniles in nest with downy tops).

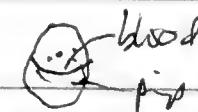
7 June

We searched the rest of the study area & the research facility for a pair, seeing young but could not find any. At my favorite bone there were 7 singing males but only ~2 juveniles.

At Feynman's home we set up an enclosure. At the edge of the



Her eggs may have been damaged in incubator. I noticed one had pipped quite a bit ad it was bloody in a strip





with J  
1991

Journal

218

Stephen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif. 6300 ft

12 June

5 eggs of female 2 of no fresh sign near fallen log.

She would not accept me 1x2" extreme pulses 617 top

was pushed over full of willow at she likes to approach  
from the top. Egg 5 is possibly cowbird

cowbird?

	1	2	3	4	5
L	20.52	21.16	20.13	20.62	18.45

w	15.22	14.95	14.67	15.22	15.78
---	-------	-------	-------	-------	-------

inc	med	med	↑ med	med	med
-----	-----	-----	-------	-----	-----

1st nest of FWS 77-96118 PK/PK PK/FWS

Incubated one night ~12 hrs

14 June

FWS # 77-96116

Jeff's ♀

77-96117

Band combo	Orange/Orange	Green/FW	Black/Black	FW/Green
------------	---------------	----------	-------------	----------

BL 8.55

9.22

BD 5.96

5.86

BW 5.19

4.59

WL 61.53.

58.55

TL 67.75

61.73

TAR 18.92

19.42

mid toe 18.87

17.29

tail 13.7

14.2

fat some

some

sex female; brood patch bloody female; brood patch

wt 21g.

20g.

Round 10.65

5.99

molt no

tail cover

Blood Sample .4ml Buffer to .100 Blood

.4ml to .1 ml blood



M, ♀

219

1991

## Journal

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif. 6300 ft

14 June

♀ FWS # 77-96118 4 eggs marked O. incubated 12 hrs

	1	2	3	4
wt	21.22	22.75	22.01	21.17
w	15.52	15.06	14.88	15.42
inc	med/hvy	light/med	med	med

FWS # 77-96118 Totalmente Couca ♀

Band Combo Pink/Pink/FW

BL 9.22

BD 6.00

BW 4.91

WL 59.95

TL 59.97

TAR 18.71

Mid toe 18.12

hallux 15.23

fat slight

sex female; brood patch

wt 21g

Round 8.33

Molt No

Blood Sample .4 ml Buffer to <sup>.075</sup> Blood

Shallow hole  
X-shaped nest  
overhanging water 445' asl. 1st nest  
nest is surrounded  
by willows made 95mm

	1	2	3	4
wt	20.90	20.54	20.81	20.20
w	15.71	15.87	16.08	15.79
inc	light/med	light/med	light	med



17/18

1991

Journal

220

Saylor Creek Field Sta., 3 mi. NW Hotant Mills, Nevada Co., elev 6300 ft

14 June eggs 9 77-96117 BK/BK FW/6R, incubated 12 hrs 1st clutch

	1	2	3	4
L	19.59	19.53	20.14	20.78
W	15.41	15.56	15.52	15.47
inc	hvy	med/hvy	med	light

2 days ago I found one egg sitting outside her nest cup. I put it back in perhaps that is the very light egg (the others appear to be an embryo started in it).

15 June 3 young at squirrel trap nest Father is 77-96119 p. 222

	1	2	3
leg color	Left = black	Left = red	Left = red <del>Right = black</del> Right = red
BL	2.62	3.16	2.73
BD	2.67	3.01	2.71
BW	2.48	2.84	3.40
WL	6.82	9.71	9.49 they are banded 22 June
TL	0.0	0.0	0.0
Tar	6.91	8.50	8.92
Middle	8.78	11.27	9.82
Hollow	4.58	6.06	6.53
tail	much	some	some
wt	3.5g	5.5	4.5 no
eye	1 day	1 day	1 day → 1/2
no 4	no	no	no
Round	no	no	no



Sut J  
1991

Journal

22

Sagehen Creek Field Sta, 3 mi NW Hobart Mills, Nevada Co; elev 6300 ft

15 June Fledged out pair from young. Fledged and banded 2 July

1 2 3 4

	L = red	L wing = red	R = red	R wing = red
--	---------	--------------	---------	--------------

SL	2.79	3.64	3.11	3.35
----	------	------	------	------

BD	2.94	3.19	2.75	3.09
----	------	------	------	------

BW	2.44	2.92	2.64	2.84
----	------	------	------	------

WL	10.42	13.20	11.34	13.09
----	-------	-------	-------	-------

TL	0.0	0.0	0.0	0.0
----	-----	-----	-----	-----

TAR	9.93	13.16	10.84	12.33
-----	------	-------	-------	-------

m.d	11.46	16.42	12.70	14.58
-----	-------	-------	-------	-------

hal	7.38	9.65	6.75	8.94
-----	------	------	------	------

fat	much	much	much	much
-----	------	------	------	------

wt	6.0	9.0	6.5	8.0
----	-----	-----	-----	-----

age	2 day	2 day	2 days	2 days
wolt	3rd primary = % 1.11	3rd pr = % 2.21	3rd pr = % 1.62	3rd pr = % 2.16
Round	0	0	0	0

♂ of this nest

FWS 77-96120

Banding YL/FW BK/CR

BL	9.03	Fat	some
----	------	-----	------

BY	5.67	wt	
----	------	----	--

BW	4.96	age	adult ♂
----	------	-----	---------

WL	64.58	wolt	0
----	-------	------	---

TL	66.64	Round	5.39
----	-------	-------	------

TAR	20.23	Blood	.1 ml + .4 ml water
-----	-------	-------	---------------------

m.d	20.43
-----	-------

hal	14.72
-----	-------



July 1991

Journal

222

Sycamore Creek Field Sta., 3 mi NW Hobart Hills, Nevada Co., Calif 6300 ft

15 June Parents at Squirrel feeder nest. no. 115 pg 220

FWS 77-96119

Band card. ~~XXXXXXXXXX~~ BL/ FW O/P

BL 9.08

BD 6.19

BW 5.34

WL 66.10

TL 69.97

TAR 19.09

Molt 18.26

Hally 14.39

fat some

wt 21.0g

sex ♂

age adult

molt none

Rand 8.17

Blood 1 d in 4 buffer

16 June 5 eggs of ♀ in Ahab's territory put up enclosure

she deserted this same day w as very early in incubation	1	2	3	4	5
	19.05	19.21	18.57	19.27	19.02
	W 15.33	15.51	15.11	15.35	14.26
	inc V.L.WT	V.L	V.L	V.L	V.L

I believe yesterday evening there were only 4 eggs.



Smith, J

(1951)

Journal

223

Sage Creek Field Sta., 3 mi. NW Hobart Mills, Nevada Co., Calif. 6300 ft.

16 June Female at corner territory 4 eggs 1st clutch

Mass She was banded 73-96121 23 June

Breeding	21.22	20.67	21.05	21.43
	15.84	15.58	16.10	15.47
	heavy	heavy	heavy	

Last years FW/BL First clutch

77.6 lbs	20.83	21.07	21.42	20.21
	15.53	15.60	15.92	15.38
	heavy	heavy	heavy	heavy

19 June Big Creek Reserve, 5 mi. N Lava, Modoc Co., Calif. 4000 ft elev.

Jeff and I arrived last night. Feyner said that 2 chicks in  
nest-exclosure hatched yesterday between 0800 ad 1500 hrs.

One egg had fallen out of the nest several days ago was still  
within the enclosure. Today Jeff opened Blue female still  
guarding a nest we noted her broodly 10 days ago.

Sputnik relocator is on 3 new eggs. Canuck female also  
on 3 new eggs and female in bottom of pens canary  
is on 2 eggs.

Sputnik ♀

	1	2	3
L	19.07	19.2	19.15
W	15.12	14.98	15.16
inc	VL	VL	VL



with J.  
1991

Journal

224

Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif 400 ft elev

15 June 2nd clutch camera ♀. Eggs marked P. Transplanted to peanut  
at sagebrush

	1	2	3
C	20.63	20.67	20.28
W	14.93	14.80	15.01
inc	med	med	med

Canyon Bottom ♀ marked C. Transplanted to Streamside mississippi  
nest cavity 2 July no sign of hatch

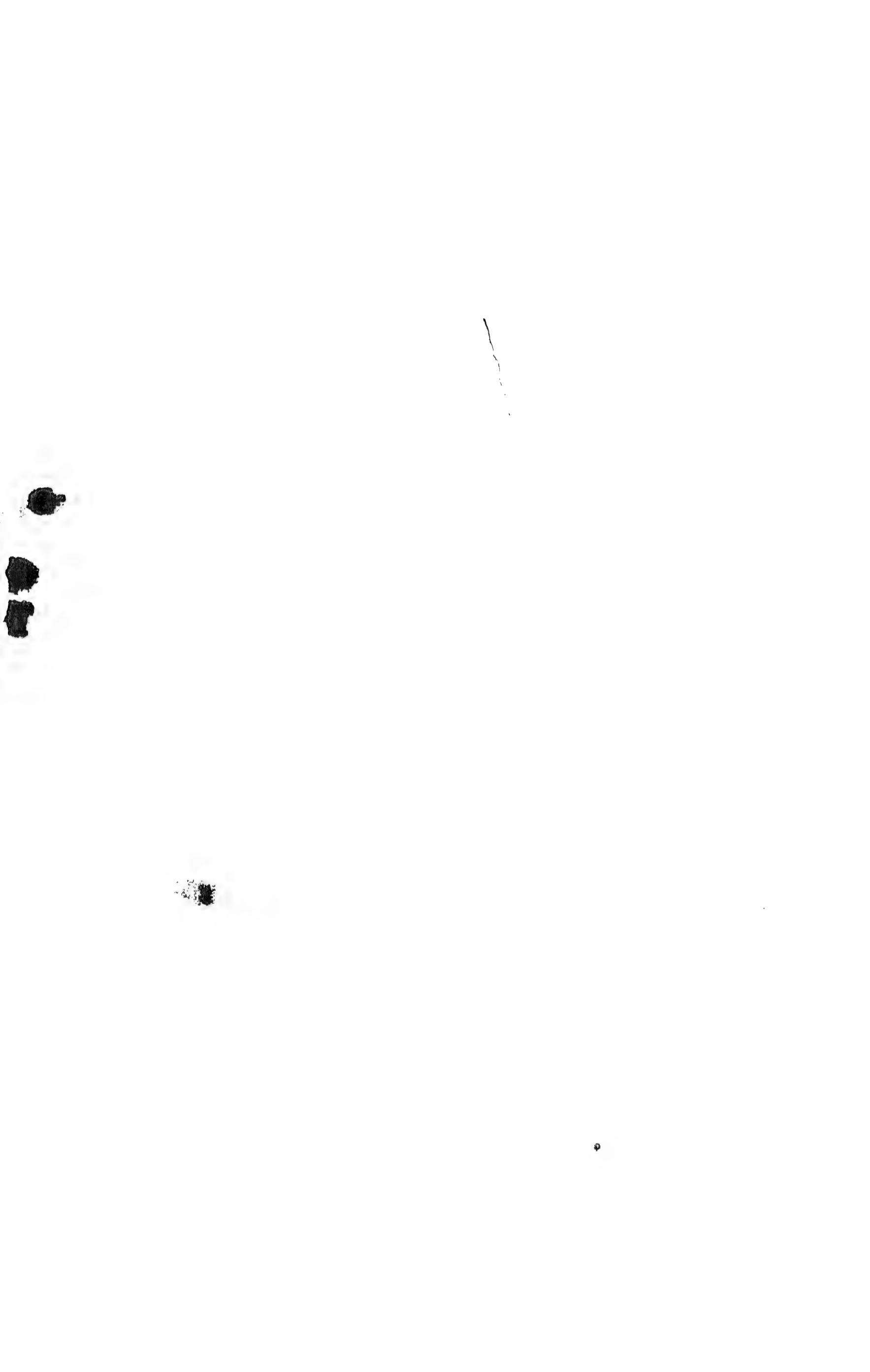
	1	2
C	18.95	19.34
W	14.66	14.75
inc	M/hy	med/hy

20 June Found nest of female just North of favorite bowl  
2 warm eggs flushed her marked 1

	1	2	hatched in incubator day Transplant to Arnold Shwayneigh's nest were out & not 2 July - not positive id.
C	20.16	20.10	
W	15.43	15.19	
inc	hy	hy	

Babies at moja enclosure 2 days old Tractor nest

color	light red	light BIK
BL	2.81	2.79
BD	2.94	2.73
BW	2.54	2.54
WL	9.92	9.32
TL	0	0
TAR	9.55	8.14
M.d	12.80	11.24
Hal	7.19	5.87
Fat	some	some
Age	2	2
round	0	0
wolt	3rd 10% 72	0.61
wt	68	58



int 1, J  
1991

Journal

228

~~Sayre's Creek Field Sta, 3 mi NW to Bart Mills, Nevada Co. Calif 6300 ft~~

22 June very small Peanut's egg

egg L 12.11

W 10.85

inc huy

Female at the corner, her chicks are banded 23 June

FWS 77-96121

Band Combo Green FW/  
Green Blue

BL 9.43

BD 5.80

BW 4.82

WL 60.64

TL 60.80

TAR 19.23

Mid toe 18.18

Hallux 14.54

fat some

wt 20.0g

sex Female; brood patch

age Adult

molt 0

Round 6.65

Blood 0.4 ml buffer to 0.1 ml blood

—

June 1, 1991

Journal

226

Sayre Creek Field Sta., 3 mi NW Hobart Mills, Nevada Co., Calif. c. 300 ft

22 June 3 Babies, one unhatched egg; Dad is 77-96119 Squirrel

	FWS 77-96122	77-96123	77-96124
Band Combo	FW Blue	FW Blue	FW Blue
BL	5.06	5.32	4.95
BD	4.19	4.07	4.04
BW	3.39	3.57	3.85
WL	41.09	38.93	36.51
TL	12.91	11.47	9.95
TAR	21.76	19.29 18.56 <del>17.59</del>	17.00
Midtoe	17.32		19.78
Hallux	12.82	14.17	12.10
fat	much	much	lots
wt	18g.	17g.	16g.
sex	?	?	?
age	♂ 9 tail molt 3rd primary 19.12; 3.92 29.21; 9.37	♂ 9 3rd Primary Tail Molt 14.44 2.25 30.82 9.30	♂ 9 3rd Primary Tail Molt 11.19 1.52 26.11 7.20
round	5.77		3.74
Blood	0.4 ml buffer to 0.1 blood	0.4 ml buffer to <del>0.1</del> <sup>0.075</sup> ml blood	0.4 ml buffer to 0.1 ml blood

23 June Transplanted Rj chick egg marked F to peanuts

Lost Jeff's nest near den ~ 3 day old chicks. Put 2 Caya  
marked by chick eggs ~ Condo Streekside nest.

Found nest of BL/PW Bu/Bu ♀ 5 eggs. ← 1990's ♀



21, 8

1991

Jurnal

227

Sage Creek Field Sta, 3 mi NW Hobart Mills, Nevada Co, Calif 6300ft  
*1 day old*

23 June Arnold Schwarzenegger; 2 Big Creek Transplants,  
 marked with I, hatched in incubator; one 3-4  
 day old chick of her own.

FWS Her Own.

Hatched early  
morning yesterdayTr ans plants  
Hatched 3:00 PM  
yester day

Band Combo	(Right leg) Green 515225	Red (Right) leg	Red (left leg)
BL	3.54	2.70	2.42
BD	2.87	2.43	2.12
BW	3.03	2.58	2.12
WL	15.07	7.59	5.94
TL	0.00	0.00	0.00
TAR	13.35	0.00	0.00
Mid toe	13.98	15.56	11.27
Hallux	8.01	5.09	3.83
fat	lots	some	lots
wt	8g.	3g.	1.5g
sex	?	?	?
age	3-4 days. 3rd Prim. <del>red</del> 0.00	1 day	1 day
molt	2.99 <del>red</del>	0.00	0.00
round	0.00	0.00	0.00

~~Re~~ 2 unhatched eggs in nest, which I removed.

This nest had fledged when we arrived 'July at 1500 hrs'



Smith 18

228

1991

Sayre Creek Field Sta, 3 mi NW Hobart Mills, Nevada Co., Calif 6300ft

23 June total mence loca; one cowbird nestling (22g) in nest, terminated by near field researcher. Nest empty 2 July - parents may be feeding fledglings had to tell.

	FWS 77-96125	77-96126 <del>77-9612</del>	77-96127	77-96128
--	--------------	--------------------------------	----------	----------

Bird Combo	FW	Pink	FW	Pink	FW	Pink	FW	Pink
BL	4.34		3.81		3.27		3.93	
BD	3.67		3.20		2.81		3.28	
BW	3.91		3.75		3.26		3.67	
WL	23.43		20.75		15.43		22.31	
TL	2.39		1.28		0.00		2.34	
TAR	17.03		15.72		0.00		0.00	
Midtoe	17.35		15.17		28.50		33.30	
Hallux	10.66		10.67		7.48		9.85	
fat	some		some		some		some	
wt	12 g.		10 g.		8 g.		13 g.	
sex	?		?		?		?	
age	5 days		5 days		4 days		5 days	
molt	3rd Prim. Tail Molt	3rd Prim. Tail			3rd Prim.		3rd Prim.	Tail
	0.00	0.00	0.00	0.00	0.00		0.00	0.00
	13.31	0.77	9.85	0.55	5.27		11.24	1.77
round	3.07		1.51		3.91		2.53	
blood	0.4ml buffer to 0.1ml blood		0.4ml buffer to 0.1ml blood		0.4ml buffer to 0.1ml blood		0.4ml buffer to 0.075 ml blood	



Ph 19

1991

## Journal

229

Sixth Creek Field Sta. 3 mi NW Hobart Mills, Nevada Co., Calif 6300 ft

23 June Female at the corner 77-96121; chicks are 4 days old.

	FWS 77-96129	77-96130	77-96131	77-96132
--	--------------	----------	----------	----------

Bard Combo	FW Blue	FW Blue	FW Blue	FW Blue
------------	---------	---------	---------	---------

BL	3.71	3.87	3.52	3.85
----	------	------	------	------

BD	3.33	3.25	3.17	3.24
----	------	------	------	------

BW	3.02	3.06	2.98	3.02
----	------	------	------	------

WL	19.28	20.96	18.02	19.70
----	-------	-------	-------	-------

TL	0.00	1.97	1.69	0.00
----	------	------	------	------

TAR	14.73	16.31	15.88	16.51
-----	-------	-------	-------	-------

Midtæ	15.65	15.7	14.11	14.72
-------	-------	------	-------	-------

Hallux	9.92	10.47	9.83	9.10
--------	------	-------	------	------

fat	some	some	some	some
-----	------	------	------	------

wt.	10.5g	12g.	10g.	11g.
-----	-------	------	------	------

sex	?	?	?	?
-----	---	---	---	---

age	4 days	4 days	4 days	4 days
-----	--------	--------	--------	--------

molt	3rd Prim. 0.00	3rd Prim. Tail 0.00 0.00	3rd Prim Tail 0.00 0.00	3rd Prim 0.00
------	-------------------	-----------------------------	----------------------------	------------------

•	8.96	9.77 0.99	7.71 0.78	7.49
---	------	-----------	-----------	------

round	2.57	1.51	2.19	2.49
-------	------	------	------	------

blood	0.4ml buffer to 0.09ml blood	0.4ml buffer to 0.1 ml blood	0.4ml buffer to 0.06ml blood	0.4ml buffer to 0.12ml blood
-------	---------------------------------	---------------------------------	---------------------------------	---------------------------------

24 June Put Phj duck Spuritic (S) eggs in 1990's BL/fw<sup>BC</sup>/BL ♀'s nest

her 5 eggs are marked with a B. 1991's BL's fledged today

one went yesterday.

had  
not hatched  
July 1991

↑  
were transplanted to  
♀ just N of favorite bowl  
and deserted



1/8

1991

## Journal

230

Sagehen Creek Field Sta., 3 mi NW Hobart Mills, Nevada Co., Calif 6300ft

24 June Nest at the three green posts; male has red/orange on left leg; cowbird in nest with 3 chicks, cowbird terminated

## Chicks

## Mom

FWS 77-96133 77-96134 77-96135 77-96136 ~~77-96137~~

Band Combo FW Orange FW Orange FW Orange white white orange FW 7 1

BL	4.72	4.46	4.37	9.11	♀ ad. 14612
BD	3.52	3.91	3.42	5.87	1431 ad. 14612
BW	3.48	3.63	3.40	4.99	1431 ad. 14612
WL	29.79	31.36	25.85	61.23	Band ad. 14612
TL	6.36	6.56	4.14	Tail bent 62.70	Band ad. 14612
TAR	19.50	18.59	18.01	19.99	
Mid toe	20.02	18.28	18.87	19.51	
hallux	13.57	11.81	10.44	13.84	
fat	some	some	some	slight	
wt.	15g.	15g.	12.5g.	18g.	
sex	?	?	?	♀ brood patch	
age	7 days	- 8 days	7 days	♀ brood patch adult	
molt	3rd Prim. Tail 2.18	3rd Prim. Tail 0.00	3rd Prim. Tail 3.79 0.00	1.53 0.00	No
	17.76	3.57	20.77	3.90	No
round	3.72	4.37	4.08	9.20	
blood	0.4ml buffer to 0.1ml blood	0.4ml buffer to 0.075ml blood	0.4ml buffer to 0.1ml blood	0.4ml buffer to 0.09ml blood	

Cowbirds have dark blue eyes.

4 eggs from 1990's by ad. BC/BL + 1 cont'd ggs

	1	2	3	4	avg
L	19.75	19.72	19.58	20.48	XX-96075
W	14.70	14.62	15.07	14.54	
med					→



th, 18

1991

Journal

231

~~Sage Creek Field Sta., 3 mi NW Hobart Mills, Nevada Co, Calif 6300 ft~~

24 Jun 4 heavy eggs from ♀ at Riverside condo we haven't  
been able to net. Placed in pump canyon bottom nest & It tipped over  
was deserted  
one chick hatched  
25 June.

1st clutch

	1	2	3	4	
L	20.76	20.18	19.92	20.59	
W	15.93	15.73	16.42	15.90	

1st clutch

1 egg from an old Shiva's egg - deformed egg

L 25.74

W 15.37

bog



July 18  
1991

juvenile

232

Big Creek Reserve, Snn N Llada, Monterey Co., Calif 4000 ft

25 June Tractor nest, mega-exclosure

1st measured p. 229 20 juv 2 days old

Dad

Chicks

	FWS	77-96137	77-96138 <sup>40</sup>	77-96139 <sup>41</sup>
Band Combo	Black FW	Yellow Green	Red Mark FW	Black FW
BL	8.36		4.27	4.53
BD	5.31		3.82	3.51
BW	4.50		3.45	3.41
WL	61.75		30.14	27.72
TL	63.17		5.94	4.76
TAR	19.21		17.81	17.58
midtoe	18.64		19.04	19.48
hallux	13.88		11.11	12.80
fat	slight		some	some
wt.	19 g.		15 g.	14 g.
sex	♂ large cloacal protrusion 5.89 x 6.90		?	?
age	adult	7 days	7 days	
molt	No	3rd Prim. Tail 0.00 0.00		3rd Prim. Tail 0.00 0.00
	No	19.44 4.44	16.20 3.52	
round	8.13	2.58	4.38	
blood	0.4 ml buffer to 0.1 ml blood	0.4 ml buffer to 0.1 ml blood	0.4 ml buffer to 0.1 ml blood	



March 19  
1991

Journal

233

Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif 400 ft

29 June Laetare - near lab nest 3 chicks. Nest destroyed 1 July

	dad	mom	chicks		
Fws	77-96142	77-96143	Possible Cowbird	Possible Cowbird	77-96146
Darkcolor	Orange blue	Pink FW	Pink FW Green	FW	FW
DL	8.29	8.41	3.30	3.66	3.24
BH	5.45	5.41	2.70	3.10	3.00
BW	4.40	4.60	3.08	2.50	2.66
WL	61.52	55.56	12.46	13.13	10.20
TL	62.79	59.69	0.00	0.00	0.00
TAK	18.80	17.85	11.46	11.02	8.90
Mif	18.43	17.43	12.32	13.77	11.90
Hml	14.53	13.57	7.14	8.10	7.09
fat	slight	slight	much	much	much
wt	20.0g.	18.0g.	7g.	8g.	6g.
sex	♂; 6.75x7.31 <sup>Cloacal protrusion</sup>	♀ brood patch	?	?	?
age	adult	adult	3 days	3 days	3 days
molt	No	No	3rd Prim 0.00	3rd Prim 0.00	3rd Prim 0.00
			2.18	2.75	1.61
Rout	7.29	4.65	2.61	1.75	—
Blood	0.4 ml buffer to 0.1 ml blood	0.4 ml buffer to 0.1 ml blood	0.4 ml buffer to 0.09 ml blood	0.4 ml buffer to 0.09 ml blood	0.4 ml buffer to 0.08 ml blood

5

6

Sum 18  
1991

234

Sayre Creek Field Sta., 3 mi NW Hobart Mills, Nevada Co., Calif 6300 ft

2 July Peanut's nest; transplant baby; 2nd transplant egg didn't hatch, removed today; peanut's egg did not hatch, also removed

Transplant

FWS 77-96147

Band Comb FW Red/Red

BL 4.02

BD 3.05

BW 2.92

WL 23.95

TL 3.72

TAR 16.19

mid toe 16.53

hallux 10.93

fat lots

wt 14g

sex ?

age 6 days

molt 3rd Prim Tail  
0.00 0.00

12.9H 2.72

round 2.54

blood 0.4 ml buffer to  
0.12 ml blood

Yff observed freely for 3 hours this afternoon

saw ♂ + ♀

Found 2nd clutch of  $\frac{ax}{tw}$   $\frac{6R}{6R}$ , she may have abandoned after ex. closure put up. I took her 4 eggs into incubator and removed enclosure. Eggs very light.



July 19  
1991

Journal

235

Sagebrush Field Sta. 3 mi NW Hoobart daily, Nevada Co., Calif 6300 ft

2 July Found nest of female just upstream from <sup>SR</sup>/<sub>GR</sub> FW/<sub>BL</sub> ♀ at the corner. 4 eggs red. Put up exclosure she accepted. Male is banded Red/FW <sup>?</sup>/GR.

Observed ♂ <sup>RC</sup>/<sub>FW</sub> <sup>8%</sup>/<sub>GR</sub> (faintest out next) feeding fledglings.

4 July Nest upstream from pebbled island nest; 4 eggs; 1 x 2 in. walled wire exclosure

Mom

FWS 77-96148

Band Combo white white  
white FW

BL 9.38

BD 6.24

BW 4.61

WL 60.75

TL 64.03

TAR 20.50

Mid toe 17.51

Hallux 14.44

fat much

wt 21.0g

sex adult ♀; brood patch

age adult

molt No

round 6.50

blood 0.4 ml buffer to  
0.09 ml blood



Suth. J  
1991

Journal

236

Higher Creek Field Station, 3 mi. NW Hobart Mills, Nevada Co./Co. 6300 ft.

4 July

measured Big Creek eggs for transfer

BL/FW BL/FW ♀ 77-9613

	1	2	3	♀
L	19.16	19.77	19.44	2nd
W	15.40	15.51	15.30	
inc	hvy	hvy	hvy	

♀ at the x

	1	2	3
L	19.67	19.44	19.25
W	15.50	16.46	15.39
inc	light	light	

♀ at the pump

	1	2	3
L	20.69	21.15	21.10
W	15.30	15.30	15.24
inc	med/hvy	hvy	hvy

♀ with <sup>Fw</sup> 1/2 of ♂ when yellow yellow was last yr

L	20.10	21.04	19.93
W	14.54	15.02	14.67
inc	light/med	med	med



July  
1991

Journal

237

Sage Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif 6300 ft

4 July

Syber ♀ ~~♂~~ GL/62 ♂ FW 2nd clutch

	1	2	3	4	FT	96/16
v	21.63	20.35	21.36	20.99		
w	15.52	15.78	15.55	15.77		
inc	med	med	med	med		

Today I opened up one of Spurwicks eggs in BL's nest it was quite addled it was 15 days old

Today I will put ~~all~~ <sup>one</sup> of B.; chick BL's eggs into Syber BL/fw nest (1990 ♀). Checked nest at 1900 hrs  
one chick has  $\frac{1}{4}$  of shell off!



1991

Journal

233

Saxton Creek Field Station, 3 mi NW Hobart Mill, Nevada Co., Calif. c. 3000 ft

4 July Nest upstream from the corner; 4 eggs; ♂ possibly <sup>Red</sup> FW <sup>Green</sup> FW <sup>Black</sup>

Mom

FWS 77-96149

Band Combo Pink FW  
Black Green

BL 8.51

BD 5.81

BW 4.72

WL 59.40

TL 59.97

TAR 18.29

Mid toe 17.88

Hallux 13.94

fat some

wt 20.0 g.

age adult •

sex ♀; brood patch

molt No

round 5.93

blood 0.4 ml buffer to  
0.11 ml blood



Suth, J  
1991

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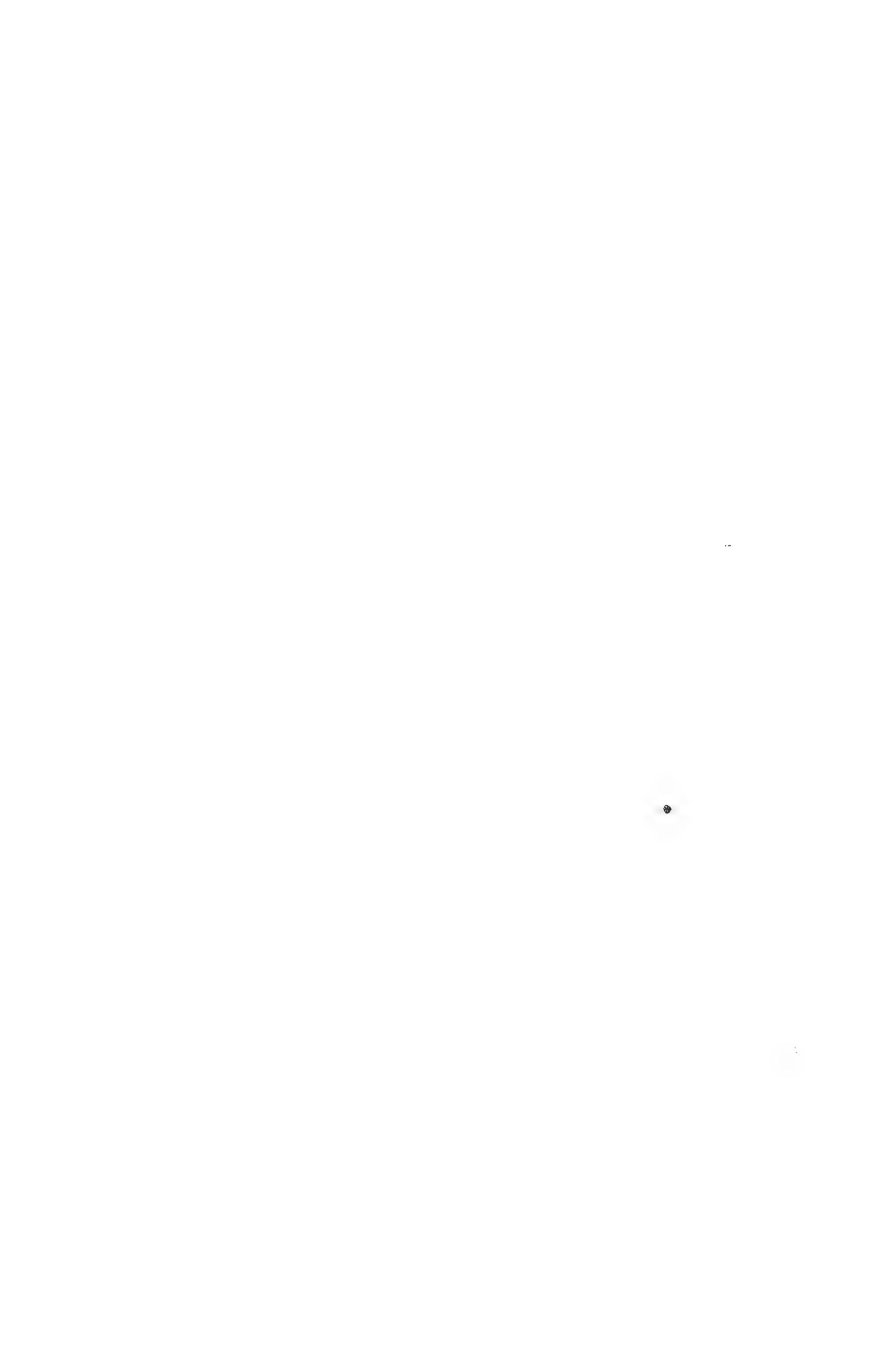
66th Creek Field Station, 3 mi NW Hotard Mills, Nevada Co., Calif G 3558

4 July Peanut's nest; transplant chick

FWS	Transplant 77-96147
Bard/Combo FW	Red/Red
BL	4.35
BD	3.42
BW	2.97
WL	33.26
TL	6.53
TAR	18.61
Mid toe	17.20
hallux	11.94
fat	lots
wt	
sex	?
age	8 days
molt	3rd Prim Tail 2.10 1.02
	22.52 6.14
round	6.27

Miss wary abandoned 4 eggs after we put up a  
mog - enclosure 2nd clutch marked W

1	2	3	4
C 19.90	19.39	19.32	19.09
W 15.62	15.86	15.40	15.68
nic hy	hy	hy	hy



Suth. J  
1991

Journal

240

Sayre Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif 6300ft

4 July

♀ PK/BK PW 77-96149 1st clutch she  
would not accept Sputnik marked eggs GR

	1	2	3	4
L	20.40	20.58	21.17	20.67
W	15.96	15.91	15.60	15.91
inc	hvy	med	med	hvy

5 July

1st clutch of "wh/wm wh/fw 77-56148 ♀" <sup>"1' from water wave</sup>  
in a 1x2" enclosure surrounded with 2' hardware cloth

marked of

	1	2	3	4
L	20.68	20.24	20.63	20.36
W	15.69	15.39	15.32	15.47
inc	hvy	hvy	hvy	hvy

This female received 3 Big Creek eggs labeled ♀  
Jeff's ♀ "fw G/B/GR got six eggs in 3 x 2 and  
3 G's. She is in a Sputnik.

Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif 4000ft

We arrived at Big Creek 2035 hrs at 2200 we noticed  
that one of the eggs marked w had hatched.

6 July

We delivered 4 w eggs to Sputnik (removing her 2) put up  
new box. BC's ad pump nest had been eaten - the  
dummy eggs were gone. The ♀ at the X had  
deserted. Measuring Sputnik's 4th clutch marked 5

	1	2
L	19.37	19.46
W	14.84	15.48
inc	hvy	med



Smith, J  
1994

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## Journal

~~Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif 400 ft~~

6 July Today one of GR's eggs hatched + one was upended  
one the incubator died + can't find the 4th (very strong)  
We will put these eggs in ♀ just north of favorite bowl  
She is on her 2nd clutch.

7 July Put Sargent eggs marked O in nest of female  
at yellow bellied swallow's bowl her mate is banded <sup>FW/6R?</sup>

Will put GR chick and 1 GR egg in north favorite bowl

BL 2.01

BD 2.05

BW 2.23

WL 5.85

TL 0.00

77-96 (♂)

TAR 0.00

Mid toe 10.55

Hallux 4.29 with jaw

fat slight

wt ~~1.0g~~ 1.0g

age 1 day

sex ?

molt no

round no



Suth, J  
1991

Journal

242

Big Creek Reserve, San Lucia, Monterey Co., Calif 400 ft elev

7 July ♀ at X may not have deserted, the eggs were warm this morning. Took 2 eggs from female in favorite bowl and added 4 Sojka eggs marked ♀. measuring her 2 eggs marked B (1st clutch?)

	1	2
L	19.41	18.35
W	15.13	14.70
inc	med	

Took 3 eggs out of ♀ N of favorite bowl added 2 GR (1 baby + 1 egg) measuring her 2nd clutch marked N

	1	2	3	79-96152
L	20.47	20.73	21.79	
W	15.01	14.88	15.28	
inc	1, ht	light med	med/light	

8 July Before we left I switched from Sturnella's nest the remaining 3 hatched eggs marked W to the ♀ at the X and gave Sturnella the 3 Big Creek eggs marked N. Everybody was okay to fly before we left. One baby still at ♀ N of favorite bowl. I took with me to Berkeley the 2 Sturnella and 2 Bowl eggs from Big Creek.

10 July Sojka Creek Field Station, 3 mi NW of Eastville, New York Co., Calif 6300 ft  
Visited Sojka w/o Jeff

11 July Pmp eggs still have not hatched all candled heavy. Blue described for Blue Transplant eggs. Sherman's nest is ~~PK/FW~~ <sup>PK</sup> ~~FW~~ <sup>PK</sup> PK/FW BK/OR



July 1991

Journal

243

Sycamore Creek Field Station, 3m NW Hobart Mills, Nevada Co. Calif 6300ft

11 July Checked <sup>FW/ov</sup> ~~ov~~ <sup>ov</sup> or trampled six eggs she still appears to be incubating some of the eggs feel dried and hollow a couple still may be okay. Saw peanut or her ♂ carrying food, no one is left in the enclosure  
Egg <sup>ov/ov</sup> ~~ov~~ <sup>ov</sup> FW ♀'s mate has ? FW/ov <sup>BL</sup> GR  
Caught ♀ at guagui station territory incubating 4 eggs

FWS 77-96150

Bands <sup>BY</sup> ~~BY~~ <sup>YY</sup> ~~YY~~ <sup>Y</sup> FW <sup>BL</sup> GR

SL 8.63

BD 5.84

DW 4.59

WC 62.00

TL ~~91.17~~ 60.06

TAR 19.52

mid ~~13.11~~

hindleg 13.24

fat Much

wt 25.0g

eg ad ♀ brood patch

teeth none

Blood 1ml to 1ml buffer

Rand 9.17

♀ stunned painted in my hand and in shade for quite a while



Smith, 19  
1991

journal

244

Sayre Creek Field Sta, 3m; NW Hobart Mills, Nevada Co, Calif 6300ft

14 July Measuring eggs for transplant

Mrs. Wiley's 2nd clutch 4 eggs marked W

	1	2	3	4	Transplanted to ♀ at Bx at B.J. Creek
L	21.21	20.60	20.46	20.79	
W	15.96	15.65	16.10	15.59	
inc	hvy	hvy	hvy	hvy	original frag had not hatched

Totalmente Lovia's 2nd clutch marked P

	1	2	3	4	transplanted to ♀ at yellow yellow her original traps O's did not hatch
L	20.12	20.54	21.23	20.00	
W	14.72	15.09	15.21	14.46	
inc	med	light/med	med/light	med	

PK FW's 2nd clutch marked G

	1	2	3	4	nest (eggs) later 17 July! something cracked in sube hole under rocks enclosures
L	19.68	20.44	19.92	one cracked	
W	15.25	15.87	15.69		
inc	light	light	light		

Y/FW BK's 1st clutch (♀ died in hand (13 July))

	1	2	3	4
L	21.47	21.34	21.67	21.26
W	16.43	16.43	16.63	16.34
inc	med	med	med	light



Smith, J  
1991

Journal

245

Big Creek Reserve, San Lucia, Monterey Co., Calif 400ft

14 July

Transplant baby measured July 7, still one unhatched egg

FWS 77-96151

Band Combo FW Red/Red

BL 4.41

BD 3.40

BW 3.40

WL 29.48

TL 4.06

TAR 15.73

Midtoc 19.22

Hallux 11.92

fat much

wt, ~~+9.0g~~ 16.0g

age 8 days

sex ?

3rd Prim Tail

molt 0.00 1.02

17.01 3.17

round 2.43

blood 0.7ml buffer & 0.12ml blood



Suth. J  
1991

Journal

246

Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif 400 ft.

14 July Feynner told us that the chicks hatched on Thurs. July 11,

Transplant eggs marked J; all chicks look one day older than Feynner's estimate.

Band Combo	Red (left leg) 77-96153	Black (left leg) 77-96155	Green (left leg)	Green (Right leg) 77-96154
BL	3.77	3.72	3.17	3.36
BD	3.28	2.87	2.77	2.63
BW	2.81	2.57	2.42	2.49
WL	20.79	18.37	11.39	14.08
TL	1.68	0.00	0.00	0.00
TAR	16.16	14.76	10.30	0.00
Middle	7.01	17.41	13.24	28.99
hallux	10.49	10.07	7.42	9.89
fat	much	much	some	much
wt	12.0g	11.5g.	5.0g	9.0g
age	3 days	3 days	2 days	3 days
scx	?	?	?	?
molt	3rd Prim Tail 0.00	3rd Prim 0.00	3rd Prim 0.00	3rd Prim 0.00
	9.51	1.03	8.89	2.51
round	2.03	2.06	2.60	2.84
blood	not yet	—		→
15 July	Found 4th nest of BY/FW b/BC in cypress. Gave her 6 R (3) Transplant eggs	1	2	3 marked b
L	19.66	19.62	20.63	
W	15.86	15.68	16.01	
inc med	med			



Suth. J  
1991

Journal

247

Big Creek Reserve, San Luisa, Monterey Co. Calif 400 ft.

She is in  
4 1/2 year  
1 x 2" banded  
exposure

15 July

Found what I believe to be the 2nd clutch of

♀  $\frac{ov}{fw}$   $\frac{R}{6R}$  in whale pt canyon marked OR

1	2	3
L 19.59	20.35	20.67

W 14.22	14.56	14.84
---------	-------	-------

inc light	light	med/light
-----------	-------	-----------

She received  
1  $\frac{ov}{fw}$  1/2 R's  
eggs from  
sagehen. These  
may have been  
handbanded

gave her carry fabrics ad took her eggs out  
sure she would accept exposure

16 July

Caught ♀ in territory North of favorite bndl. Spurist  
is incubating her 3 eggs (still not hatched today!) and  
she is feeding transplanted baby 77-96151

FWS 77-96152

Bands  $\frac{DR}{6R}$   $\frac{4v}{FW}$

BL 8.08

BD 5.28

BW 4.56

WL 57.48

TL 61.82

Tar 19.22

mid 17.33

Udder 13.81

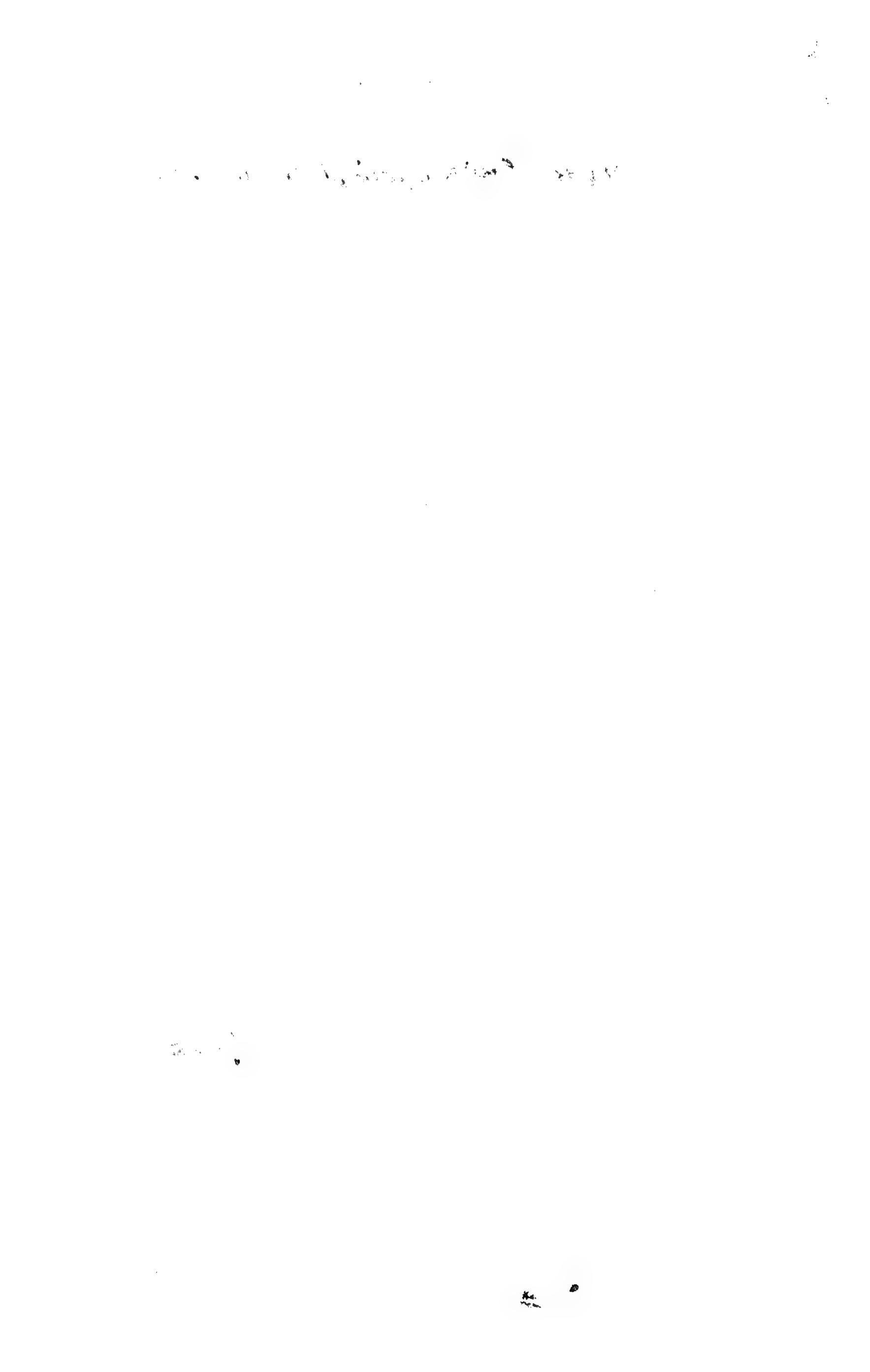
fat some

wt 18.0 g

Rout 6.6 no molt

Sex ♀ ad

Blood ~~Lead to~~ Yml Buffer may have etOH in blood



South J

1991

## Journal

243

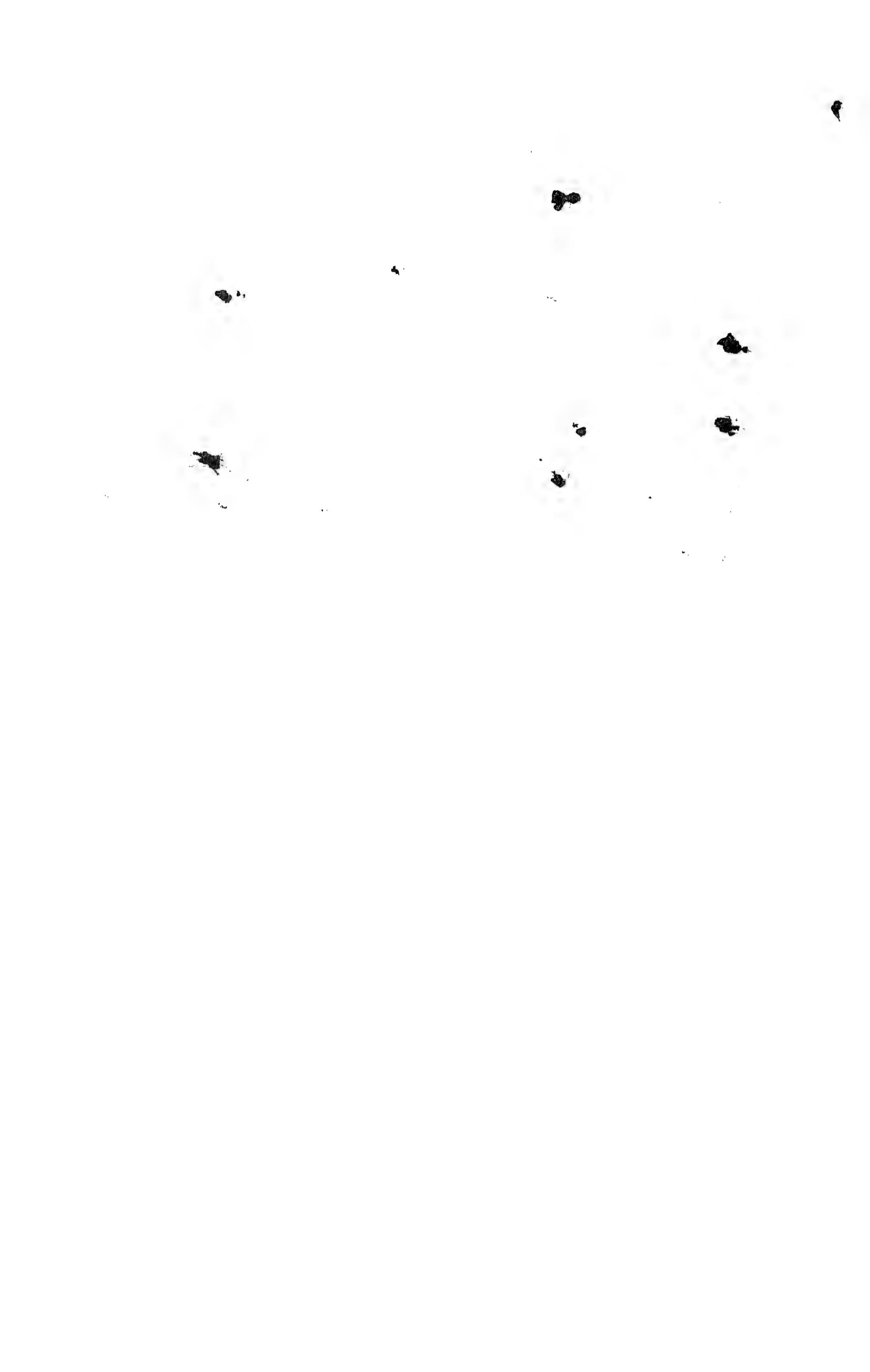
Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif. 900 ft.

16 July Nest with Transplant eggs marked T. Previously measured on  
 14 July. One transplant chick missing, lost during previous night.  
 Lost chick had green on left leg.

## Transplant Chicks

FWS	77-96153	77-96154	77-96155	77-96156
Bard Combo	FW Red Red	FW Red Red	FW Red Red	Black FW Yellow
BL	4.24	4.19	4.22	8.60
BD	3.48	3.35	3.49	5.76
BW	3.12	3.13	3.19	4.82
WT	28.95	23.99	27.69	59.34
TL	4.20	2.44	3.94	63.36
TAR	18.41	17.67	0.00	17.42
Mid toe	17.95	17.28	36.55	16.51
hallux	11.77	11.35	12.04	14.11
fat	much	much	much	some
wt.	15.0g	14.0g	15.0g	19.0g
age	6 days	6 days	6 days	adult
sex	?	?	?	♂
molt	3rd Prim Tail 3.30	3rd Prim Tail 0.00	3rd Prim Tail 0.00	No
	18.63	3.01	13.92	1.23
round	3.36	2.15	3.75	6.75
blood	0.4 ml buffer to 0.1 ml blood	0.4 ml buffer to 0.1 ml blood	0.4 ml buffer to 0.1 ml blood	0.4 ml buffer to ml blood no blood, can't get any veins
remarks	Red(left leg)	Green(right leg)	Black(left leg) 2nd Prim has broken sheath	

18 July checked BL at cypris still incubating 3 GR eggs.  
 Sputnik had 2 newborn chicks at 0730 hrs  
 at one unhatched egg.



Suth. J

1791

## Journal

249

~~Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif.~~ ~~Goose~~

18 July Checked ~~FE/FW~~ ~~GE/GF~~ transfor clutch. 3 big babies at 0830 hrs, parents hizy. Jeff did feeding abt last night until 2000 hrs. Observed territory north of favorite bowl with singletons transplant ♀ is ~~0E/6R~~ ~~8C/8S~~. Transplant (77-96151) fledged yesterday, but remained in the enclosure. Today I believe I hear it flying outside of the enclosure.

Spruk's two babies measured, one cupped egg

(GK)	Red (ft)	Green (left leg)	
BL	1.94	2.14	—
BD	2.32	1.96	
BW	1.5%	1.96	
WL	6.65	5.70	
TL	0	0	
TAP	0	0	
M.d	13.96	11.69	
hal	4.5%	4.20	
fat	slight		
wt	2.5g	2.0g	
Round	none, no molt	none, no molt	
Age	0	0	

Measuring 3 eggs of ♀ whom I thought had broken nest. size denoted after Whiting. Molted T <sup>2nd clutch</sup>:

	1	2	3
i	19.91	19.79	20.26
w	15.67	15.65	15.19
1 <sup>st</sup> med	gettin		new



June 18  
1991

Journal

250

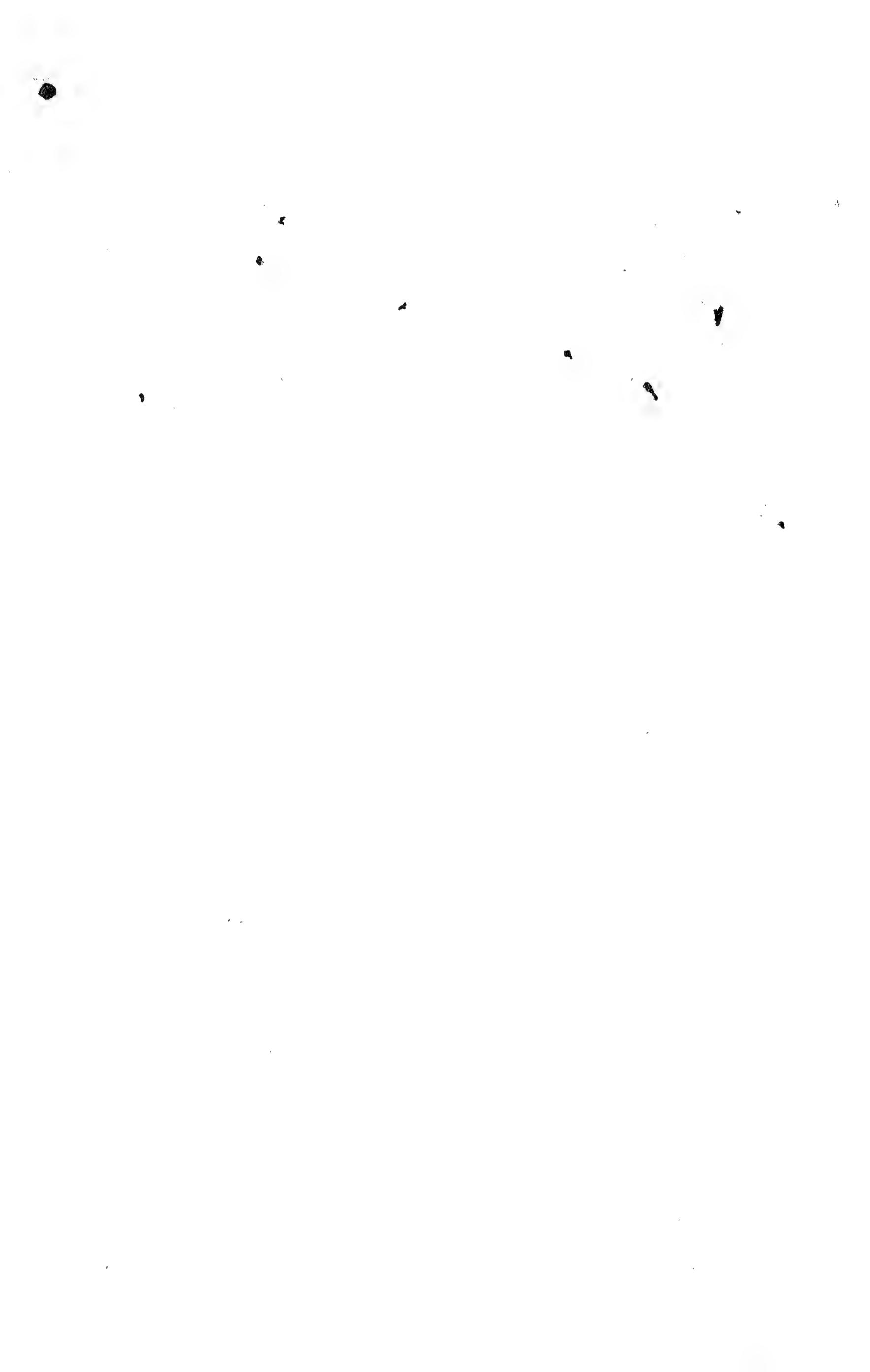
Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada

21 July Arrived Sagehen 18 July. Lots of storms in the afternoon. Found 2nd brood of 8<sup>8</sup>/<sub>FW</sub> <sup>06</sup>/<sub>IK</sub> measured today one unhatched egg

PWS	77-96157	77-96158	77-96159
color	FW BL	FW BL	FW BL
BL	3.30	3.75	3.81
BD	3.02	3.34	3.41
BW	2.69	3.21	3.17
WL	14.52	15.18	19.99
TL	0	0	0
PAR	13.48	0	0
Mid	13.78	29.08	31.96
Hol	8.97	8.82	10.64
fat	some	some	some
wt	8g	10g	11.5g
adult	3rd $\frac{0}{4.36}$ , 0	3rd $\frac{0}{7.51}$	$\frac{0}{10.25}$ , 0
Round	2.77	1.93	2.54
Blood	+	yes	yes
gen	4 days	4 days	+4
		lowlord?	cont'd? NO, 9 Aug 1991 collected

1990's <sup>B</sup>/<sub>FW</sub> <sup>B</sup>/<sub>BL</sub> 3rd clutch

	1	2	3	4
L	20.21	20.54	20.34	20.80
W	14.41	15.20	15.25	14.77
hi	hug	hug	hug	hug



Sept. 8  
1951

Journal

251

Sayler Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif (3000 ft)

22 July

Measuring 4 eggs of ♀ 2nd clutch

her right leg is banded "W/YL"

from last year. She is in a hardware cloth 2' wire chicken coop over that.

	1	2	3	4
L	19.80	19.97	20.10	20.00
w	14.53	14.85	14.56	14.49

nic too dark

I am switching this clutch with the  
3rd clutch of last year's B/few BL/Bl

Measuring eggs <sup>WY/WH OR/FW</sup> ~~WY/PW~~ ~~OR~~ ♀ 2nd clutch  
for transfer.

	1	2	3	4
AB BL	21.30	20.95	21.17	21.08
W	16.17	16.34	16.11	16.51

nic

B; Creek eggs marked 'B' went to this wire  
in 9' circumference 1x2" x 4' welded wire with  
30" of hardware cloth bottom and aviary wire  
top. B; Creek eggs marked T went to ♀  
banded PK/BK RW/GR in 12' circumference with  
welded wire 1x2" x 4' and hardware cloth 1/4" bottom  
chicken coop 1" top. D; Creek eggs marked OR  
want to PK/PK RW Total metal Luca. She is  
in a 3' x 1" x 2" tower with hardware cloth at  
aviary wire bottoms to the shore and 1x2" x 4" for water



July 1991

Journal

252

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co, CA, 6300ft

22 July Arnold Schwarzenegger's nest; 2nd brood. Her mate killed last week ( $\sigma$  Orange FW  $\frac{pink}{black}$ ). 3 chicks. ♀ BK/BK ♂ FW?

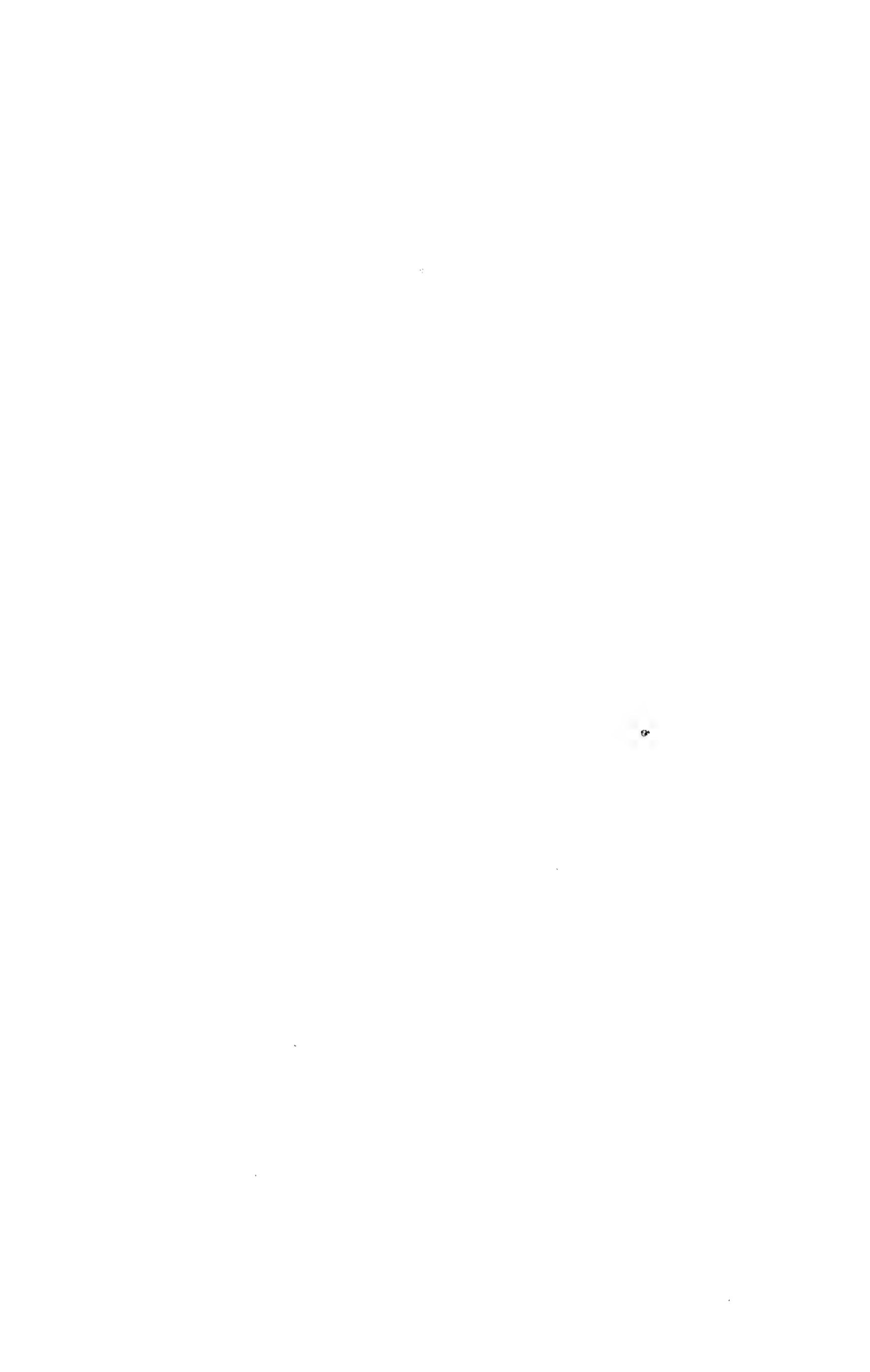
FWS

Band Info

BL	2.23	2.20	2.04
BD	2.06	2.63	2.24
BW	2.79	2.20	1.74
WL <sub>reg</sub>	7.91	7.13	5.82
TL <sub>reg</sub>	0.00	0.00	0.00
Tar	0.00	0.00	0.00
Mid toe	13.97	14.41	11.31
Hallux	4.65	4.43	4.15
fat	some	slight	slight
wt.	2.9g.	2.5g	1.5g.
age	1 day	10 days	0 days
sex	?	?	?
molt	No	No	No
round	0.00	0.00	0.00
remarks	Green left leg	Red left leg	Red right leg. hatched 4:30AM this morning

22 July Big Creek Reserve, San Lucas, Monterey Co., Calif 900ft

arrived w/ Jeff last night at 1930 hrs. Checked OR♀ at bottom of whale pt. One chick just hatched another had shell cut in 2. The 3rd egg showed no signs of pipping. The 4th egg was not visible.



July

1991

## Journal

253

Big Creek Reserve, 5 mi N Lucia, Monterey, Calif 400 ft

22 July

Sooty had 2 6d chicks, bl & tail  
 2 eggs - Jeff checked, she must have  
 discarded the 3rd. The female at the  
 X abandoned 2 eggs one day from  
 hatching!

23 July

Found nest of <sup>fw/Bc</sup> <sup>1/2R</sup> on new  
 research site of 2 day old chicks  
 mate is unbanded

color	Red left	gray left	BLK 44	Red right
BL	2.76	3.11	2.88	3.11
BD	2.42	2.79	2.54	2.56
BW	2.28	2.32	2.33	2.62
WL	8.80	12.04	9.06	10.70
TL	0	0	0	0
TAR	0	0	0	0
WHT	18.58	24.70	20.74	23.65
HULLY	6.10	7.27	6.57	7.96
fat	some	some	some	some
wt	5g	7.5g	6g	7g
age	2	2	2	2
Sex				
MFT	3rd $\frac{0}{.51}$	3rd $\frac{0}{1.99}$	3rd $\frac{0}{.72}$	3rd $\frac{0}{.54}$
Rand	n	1.66	~	~
		77-96164		



Suth, J.  
1991

Journal

254

Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif 400 ft  
Orange Red ♀

FW

Green

nest; transplant eggs marked  $\frac{1}{2}$ ; 2

eggs hatched last night around 19:00; one unhatched egg  
and one egg was discarded by ♀. Unhatched egg pipping  
at 12:00 today.

Leg Color Red left leg Green left leg

WL 7.39 6.48

TL 0.00 0.00

Tar 0.00 0.00

Mid toe 14.53 13.85

hallux 4.80 4.56

BL 2.35 2.40

BD 2.09 2.45

BW 1.94 1.77

fat slight slight

wt. 3.0g. 2.5g.

sex ? ?

age 1 day 1 day

77-96163 77-96162



Smith, J  
1991

Journal

255

Big Creek Reserve, 5 mi N Lucia, Monterey Co, Calif 400 ft

23 July Sputnik's nest; 2 babies last measured on 18 July 1991;  
one unhatched egg. Eggs are from female in territory  
north of my favorite bowl.

Leg color Green left leg Red left leg:

BL 4.09 4.26

BW 3.19 2.75

BD 2.84 3.24

WL 22.42 21.62

TL 2.61 3.07

Tar 15.91 16.06

Midtoe 16.99 17.88

Hallux 9.99 11.66

molt 3rd Prim Tail 0.00 0.00 3rd Prim Tail 0.53 0.00

10.52 0.86 12.45 2.33

fat much lots

wt 13.0g. 13.0g.

age 5 days 5 days

sex ? ?

round 2.19 1.98

24 July Banding + Bleeding Sputnik's babies

Green leg - 77-94160 + xl - 3rd 1° retwing is out. This is  
160° { Rightly Red - 77-96161 + xl, The only one  
wings Rightly Red - 77-96161 + xl, → all 1°'s have broken  
sheath



Sept. 1991

Journal

256

Big Creek Reserve, S. N. Lucia, Monterey Co. Calif 400 ft

28 July Nest below Whale Point. ♀ Orange Red FW Green. 2 transplant babies.

Last measured on 23 July 1991.

FWS 77-96162

Band Combo Red  
Red Right leg

BL 4.09

BD 3.06

BW 2.88

WL 21.25

TL 2.02

Tar 16.36

Mid toe 17.24

Hallux 11.00

fat some

wt 14.5g.

age 6 days

sex ?

molt 3rd Prim Tail  
0.00 0.00

11.14 1.15  
2.0

round 2.00

blood 0.4 ml buffer to  
0.1 ml blood

leg color Green left leg

77-96163

Red  
Red Right leg

3.86

3.44

2.86

24.33

3.52

17.36

16.80

11.11

some

14.5g

6 days

?

3rd Prim Tail

0.00 0.00

13.17 1.30

3.30

0.4 ml buffer to  
0.1 ml blood

Red left leg



Smith J  
1991

Journal

257

~~Big Creek Reserve, San Lucia, Monterey Co., Calif 400 ft~~

28 July ♂ FW ~~yellow~~ BL Orange. 2 dead chicks collected; 1 chick missing. Dead chicks Right leg Red, Left leg black. Primaries had broken sheath on right leg red.

FWS 77-96164

Band Combo FW Blue

BL 4.03

BD 2.45 2.83

BW 2.70

WL 24.05

TL 2.92

Tar 16.34

Mid toe 16.63

Hallux 11.39

fat some

wt. 10g.

age 7 days

sex ?

molt 3rd Prim Tail  
1.71 0.40

15.14 1.48

round 2.83

blood 0.4 ml buffer to  
0.09 ml blood

leg color Green left leg

1st chick of 5th clutch hatched in incubator ~2600 hrs  
fed it 4/5's of a mealworm. 2153 he ate one more  
entire mealworm.



Mr. J  
1991

Journal

258

Big Creek Reserve, San Lucia, Monterey Co., Calif. 900 ft

29 July 0706 fed the single chick in incubator  $\frac{4}{5}$  of a mealworm. One other egg is pipped but not the 2 others. 0744  $\frac{1}{2}$  of a meal worm fed to chick dead by strangulation in the incubator  $\sim 1200$  hrs occurred below - not giving collective number yet

BC 2.13

BD 2.23

BV 1.73

WL 6.56

TL 0

TAR 0

midday 13.10

HNL 4.44

fat 51+

wt 2g

age 1 day - stored in alcohol no tissue ran and

Another of these eggs hatched  $\sim 1500$  hrs.

30 July another egg hatched last night (early morning 31 July).



Suth of

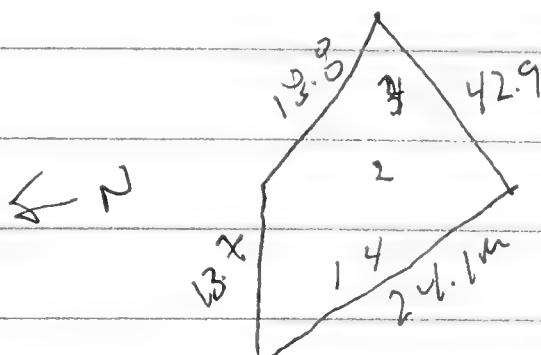
1991

Journal

Big Creek Reserve, 5mi N Lucia, Monterey Co. (city 400ft) 259

30 July Blues Territory

24.1m x 13.7m x 16.80m x 42.9



2-3 : 25.2m

2-4 : 15.9

4-1 : 3m

distance to sputnik's 1st nest 25.4m

But distance to canon is

23.4

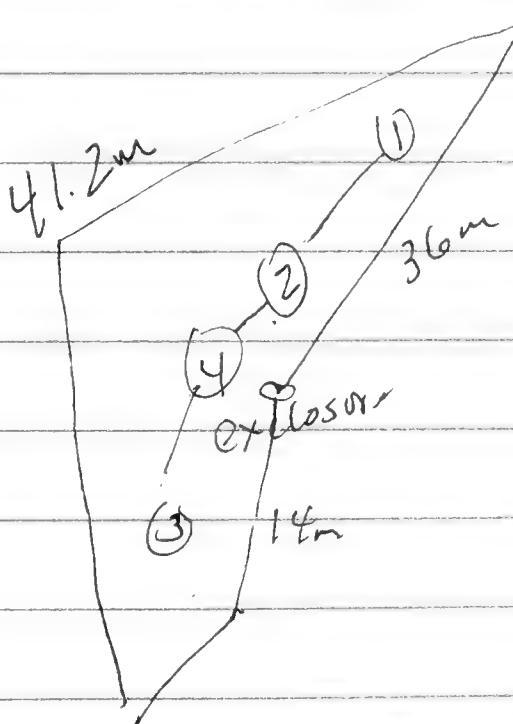
Sputnik's

3ay tree

nest 3-4: 10.7m

4-2 : 4.6m

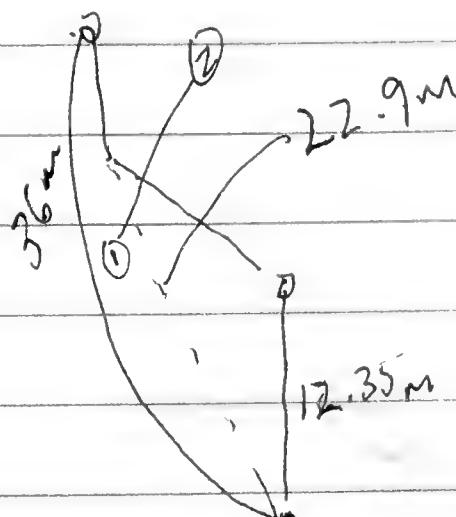
2-1 : 16.88m



huber couple

1-2 : 26.5m

28m to canon. nest pairs  
nearest nest





July 3  
1991

Journal

260

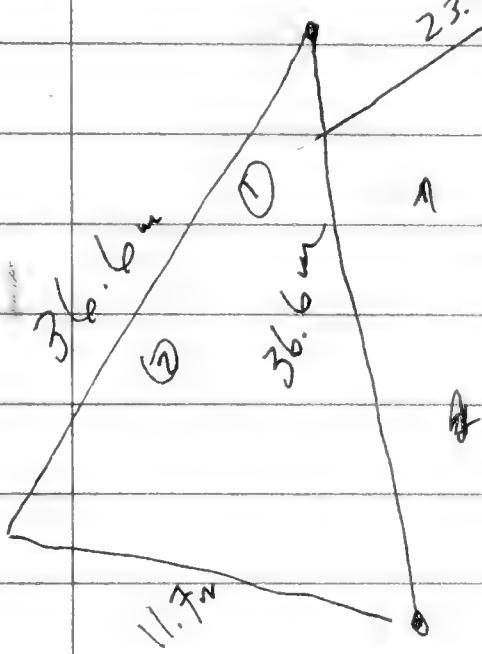
Bidwell Reserve, San Lucia, Monterey Co.; elev 400ft

30 July

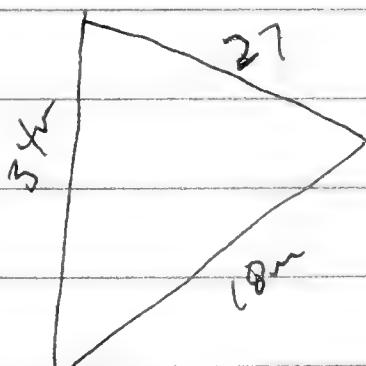
Canner nest

23 fm To 3rd nest

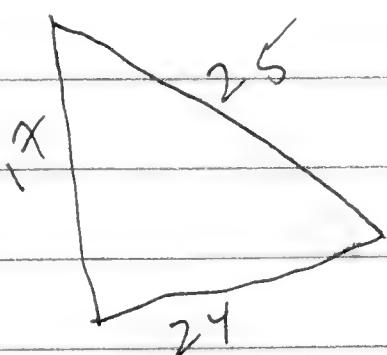
9.7 fm nest 1 to 2



pump pair



wade pt



19 m - nest 1 to 2



Smith, J.  
1991

Journal

261

~~Big Creek Reserve, S. Mi. Lucia, Monterey Co., Calif. 400 ft.~~

30 July ♀ ~~Orange~~ <sup>Red</sup> FW Green.

Transplant Babies

FWS 77-96163

77-96162

Band Combo FW ~~Red~~  
~~Red~~

FW ~~Red~~  
~~Red~~

BL 4.56

4.49

BD 3.16

3.46

BW 2.97

3.01

WL 33.43

29.74

TL 6.03

4.67

Tar 19.32

19.06

Mid toe 17.34

17.41

Hallux 12.41

10.95

fat some

much

wt 16.0g

16.5g

age 8 days

8 days

molt 3rd Prim Tail  
0.00 0.49

3rd Prim Tail  
0.82 0.00

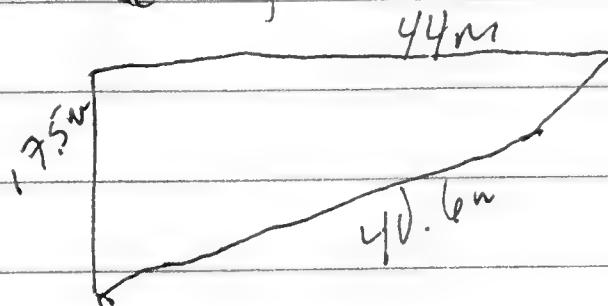
21.43 4.76

19.91 3.12

round 4.62

2.97

Greens Territory -





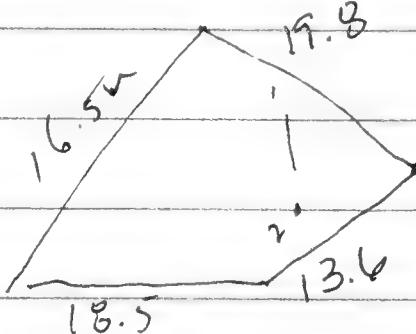
Sept 18  
1991

Journal

262

Big Creek Reserve, San Lucia, Monterey Co., Calif 400ft

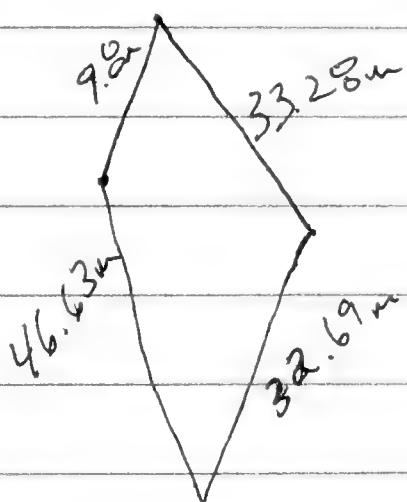
30 July north of favorite bowl



21.5m net 1 to 2

40 m - nearest neighbor

Favorite Bowl



40m - nearest neighbor

new research facility

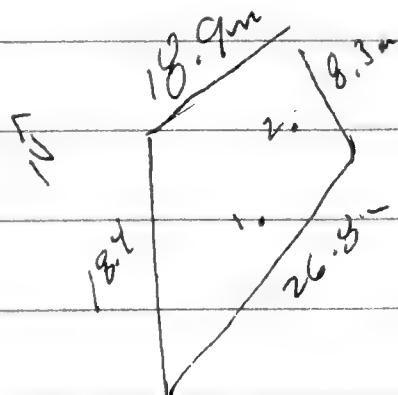
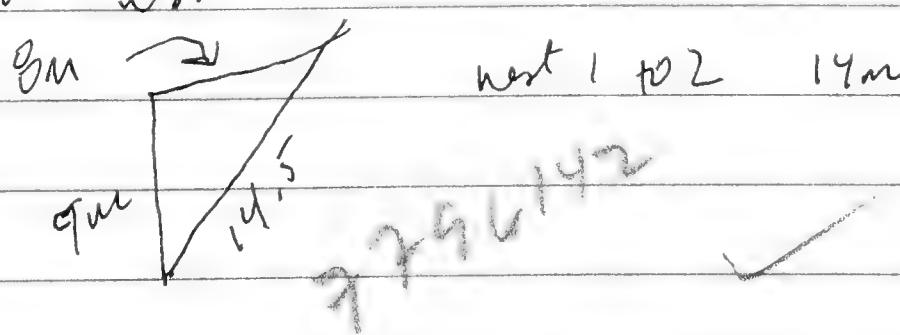


Fig 182 6/14

net 1 to 2 - 17.3m

latrine net





Smith &  
1991

Journal

263

Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif. 400 ft

30 July Measuring Sayian incubator chicks,

color Red green

BL 2.48 2.42

BD 2.12 2.32

BW 1.94 1.93

WL 6.43 6.76

TL 0 0

TAN 0 0

Mid 13.09 12.63

Hd 4.64 4.62

fat sit

wt 2.0g 2.5g

Age 1 0

This chick is not  
easy to feed

The 4th gg is pipped tonight at 2030 hrs.

31 July 4th chick hatched early this morning I presume between  
2300 last night at 0700 today.



July 8  
1991

Journal

264

Sagehen Creek Field Sta. 3 mi NW Hobart Mills, Nevada Co., Calif 6308 ft

31 July ♀ ~~Green FW~~ <sup>Pink</sup> Green Black. Transplant eggs marked T. 2 babies and 2 unhatched eggs.

FWS 77-96165 77-96166

Bard Combo FW Orange  
Orange

BL 4.26 4.74

BD 3.18 3.20

BW 3.14 3.31

WL 25.10 26.30

TL 3.64 4.14

Tar 17.08 17.91

Midtæ 17.60 16.93

hallux 11.80 10.85

fat some much

wt 13.5 g. 15.5 g.

age 6 days 6 days

3rd Prim Tail 3rd Prim Tail

molt 0.00 0.00 0.00 0.00

14.68 1.79 15.83 2.67

round 3.16 3.54

blood 0.4 ml buffer to 0.4 ml buffer to  
0.08 ml blood 0.1 ml blood



mtl, 8  
1991

Journal

265

Sagebrush Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif 6300ft  
at 11 blue

31 July ♀ 1990 ~~B10e B10e B10e~~. 4 eggs marked R? 4 babies

Band Combo

~~F10S~~

FWS

~~B10e~~

FW Yellow

FW Yellow

FW Yellow

FW Yellow

BL 3.88

4.19

3.88

3.79

BD 3.34

3.07

3.33

3.08

BW 3.24

3.02

3.10

2.42

WL 25.51

26.03

25.92

22.36

TL 2.74

4.67

2.85

2.49

Tar 16.64

14.~~7~~<sup>97</sup>

15.59

16.31

Midtoe 18.02

18.67

19.44

18.09

Hallux 11.39

10.93

11.73

10.25

fat much

much

much

some

wt 15.5g

16.0g

15.5g.

13.0g

age 6 days

6 days

6 days

5~~6~~ days

molt 3rd Prim Tail

3rd Prim Tail

3rd Prim. Tail

3rd Prim Tail

0.00 0.00

0.00 0.00

0.30 0.00

0.00 0.00

15.33 1.65

16.01 2.61

14.65 1.84

11.33 1.22

round 1.67

2.88

2.41

2.01

blood 0.4 ml buffer to

0.4 ml buffer to

0.4 ml buffer to

0.4 ml buffer to

0.1 ml blood

0.1 ml blood

0.1 ml blood

0.1 ml blood



Smith, J  
1991

Journal

266

Sagehen Creek Field Sta., 3 mi NW Hobart Mills, Nevada Co., Calif. 6380 ft.

31 July 1990 Blue's eggs reared by yellow at the ever-mysterious pebble island.

	FWS 77-96171	77-96172	77-96173	77-96174
Bard Combo	FW Blue	FW Blue	FW Blue	FW Blue
BL	4.36	4.43	4.45	4.34
BD	3.41	3.44	3.40	3.41
BW	3.29	3.26	3.33	2.97
WL	24.04	28.94	30.92	29.01
TL	3.41	4.97	5.26	4.77
Tar	17.27	18.25	16.52	18.18
Mid toe	17.86	18.42	17.96	17.58
hallux	10.60	11.59	11.22	10.08
fat	much	much	much	much
wt	13.0g.	16.0g.	16.0g.	16.5g
age	5 days	7 days	7 days	7 days
molt	3rd Prim Tail 0.00 0.00	3rd Prim Tail 2.70 0.00	3rd Prim Tail 0.00 0.00	3rd Prim Tail 1.29 0.00
	12.48 2.06	18.71 3.42	19.59 3.67	18.60 3.04
round	2.54	3.64	2.80	2.87
blood	0.4 ml buffer to 0.1 ml blood	0.4 ml buffer to 0.085 ml blood	0.4 ml buffer to 0.1 ml blood	0.4 ml buffer to 0.1 ml blood

1 Aug

Measuring 3rd dutch of ♀ wh/aw wh/wh

1 2 3 4

L 20.89 20.78 21.11 20.69

w 15.79 15.86 15.53 15.45

inc huy huy huy huy



Smith, J  
(1991)

267

Journal

~~Sage Creek Field Sta., 3 mi NW Hotant Mills, Nevada Co., Calif.~~ 63044

1 Aug Measuring 3rd clutch of Ge/Fw oe, or

	1	2	3	4
L	19.94	21.37	20.81	20.53
W	15.79	15.31	15.84	15.82
inc hvy		hvy cracked	hvy	hvy

1 August Peanut's <sup>2nd</sup> nest.

	FWS 77-96175	77-96176	77-96177
Band Combo	FW Green	FW Green	FW Green
BL	4.73	4.86	4.58
BD	3.42	3.56	3.47
BW	2.67	2.79	2.95
WL	33.17	33.27	30.12
TL	7.28	9.29	7.56
Tar	18.07	19.28	18.93
Midtoe	16.99	18.57	16.58+5.73
Hallux	12.41	12.20	11.77
fat	some	some	some
wt	14.0g.	16.5g	15.0g
age	8 days	8 days	8 days
molt	3rd Prim Tail 8.09 1.10	3rd Prim Tail 5.49 1.37	3rd Prim Tail 4.85 0.80
	22.36 5.57	24.48 7.32	19.64 5.27
round	4.37	5.05	3.65
blood	0.4 ml buffer to 0.1 ml blood	0.4 ml buffer to 0.09 ml blood	0.4 ml buffer to 0.11 ml blood



Smith, J.  
1991

Journal

268

Sagehen Creek Field Sta., 3 mi NW Hofart Mills, Nevada Co., Calif 6300 ft.

1 Aug caught father of 77-96167-170 + mate of  $\frac{FW}{10R} \frac{BL}{YL}$

FWS 77-96178

Band colr FW/10R BL/YL

BL 8.29

BD 5.65

BW 4.42

WL 64.23

TL 65.06

TAN 19.13

mf 17.64

hal 13.40

fat some

wt 20.0 g

Round 8.28

molt no

sex ♂

eye ad

blood .1 to .4 g/ml

caught 1990's BL/FW ♀ mother of 77-96171-174

FWS 77-96025 mf 16.10

Band  $\frac{BL}{BL} \frac{FW}{BL}$  Hal 13.46

BL 8.73 fat sit

BD 5.64 wt

BW 4.19 Round 6.56

WL 63.11 molt

TL 62.71 eye ad

TAN 20.40 sex ♀ brood patch  
blood .1 to .4 ml/cm<sup>2</sup> all the ton floor 2.08



Smith, J.  
1991

Journal

269

~~Wagon Creek Field Sta, 3 mi NW Hobart Mills, Nevada Co., Calif 6350~~

1 Aug caught mate of  $\frac{B^y}{BL} \frac{FW}{BL}$  77-96025

Fws 77-96179

Band  $\frac{FW}{BL} \frac{Wh}{BL}$  PIC

BL 9.31

BY 6.01

BW 5.47

WL 63.45

TL 65.19

TAR 20.26

M.d 17.77

Hwt 14.48

ft some

wt 21.0

Rand 5.30

molt no

Blood .1 ml to .4 ml buffer



Sept 19  
1991

Journal

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~~Sagebrush Creek Field Sta. 3 mi NW Hobart Mills, Nevada Co. Calif 6300'~~

2 August ♀ <sup>white or</sup> FW. 1 baby, hatched in incubator, fed meal worms by hand for a 1/2 day.

BL 2.87 77-96184

BD 2.87

BW 2.43

WL 8.56

TL 0.00

Tar 0.00

Middle 17.06

hallux 5.96

fat slight

wt 5 g

age 2 days

3rd Prim

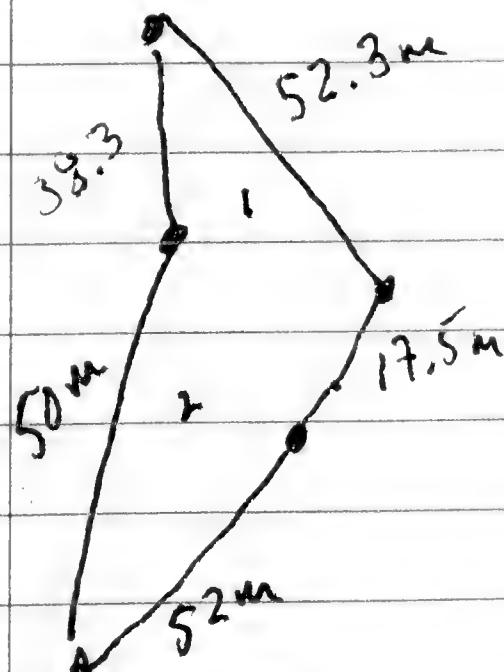
molt 0.00

0.32

round 0.00

Tertiary measurements of wh/wb ad' fw + fw rd/or  
nest 1 to 2 47.6 m

nearest neighbor 111 m





int 18  
1991

Journal

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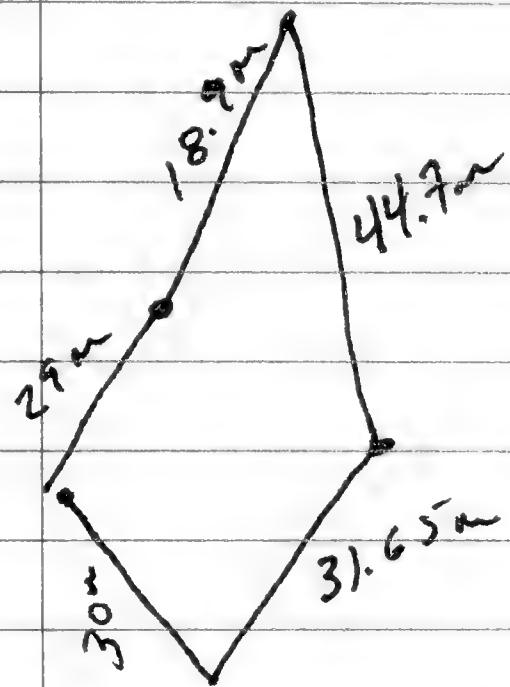
Sugden Creek Field Sta., 3 mi NW Hobart Mills, Nevada Co., California

2 Aug

Territory of <sup>GR</sup> ~~GR~~ <sup>BK</sup> ~~BK~~ <sup>DE</sup> ~~DE~~ ♂ : <sup>GR</sup> ~~GR~~ <sup>BK</sup> ~~BK~~ ♀

nest 1 to 2 : 22.1 m

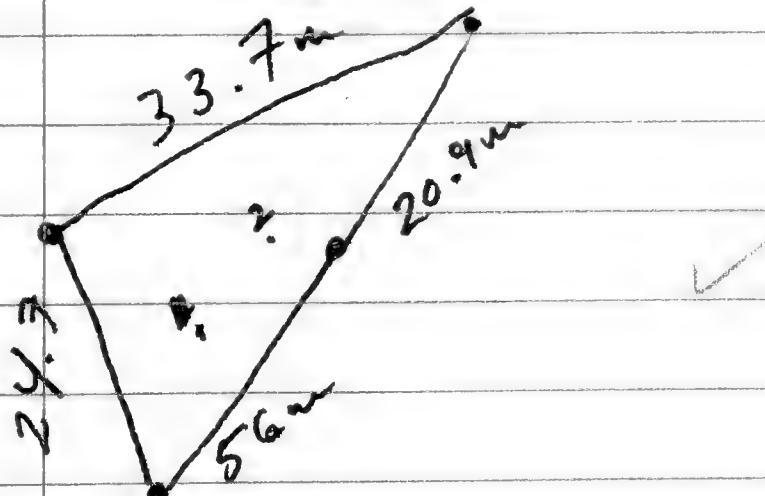
47.2 m - nearest neighbor



Territory of <sup>BK</sup> ~~BK~~ <sup>DE</sup> ~~DE~~ 77-56119

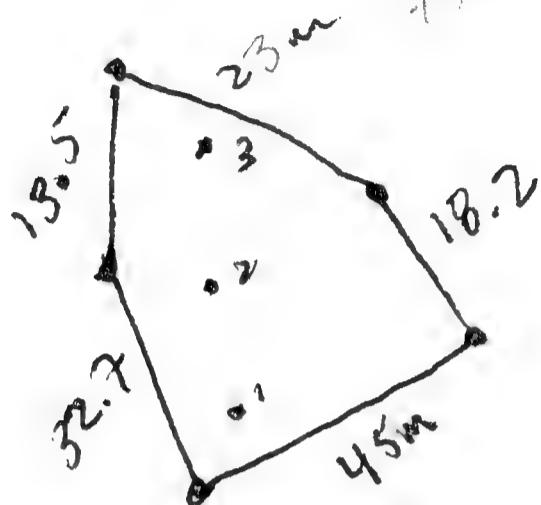
Nest 1 to 2 : 13.4 m

nearest neighbor 21 m



1990's BL  
BL FW

1996/97

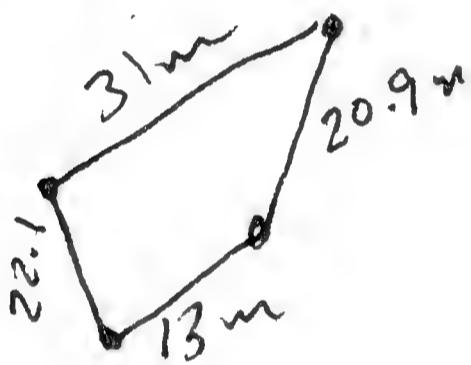


nest 3 to 2 : 27.5m

nest 2 to 1 28.3m

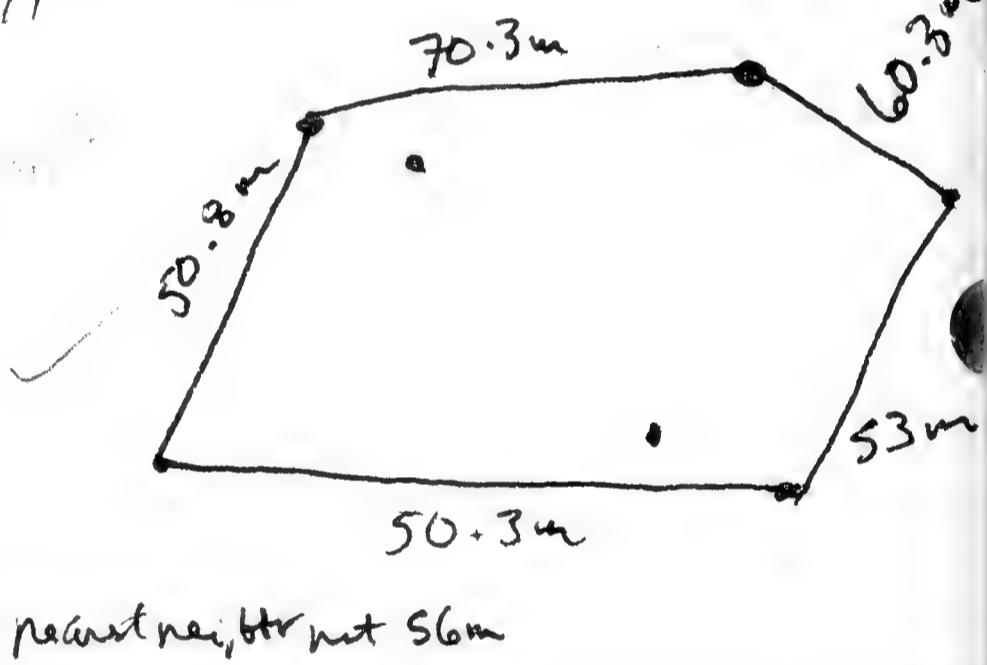
nearest neighbor 21m

OR BL 1996/97  
FW 42  
nearest neighbor 62.3m



WH FW WH

nest 2:3 - 73.3m  
nest 1+3 - 35.6m



July 1991

Journal

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Sagchen Creek Field Sta; 3 mi NW Hobart Hills, Nevada Co., Calif 6300 ft.

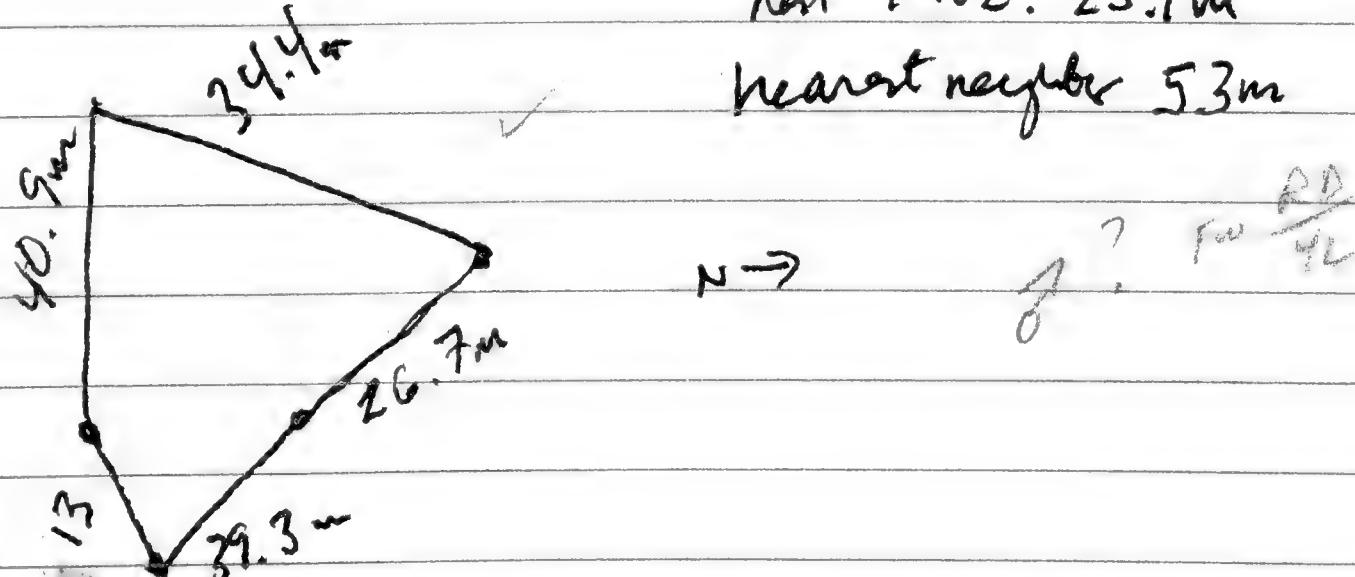
3 August Territory at the corner. 3 babies 0 days old, 1 unhatched egg, 1 cowbird that I discarded.

BL	1.92	1.94	2.08
BD	2.25	1.88	1.71
BW	1.99	1.64	1.95
WL	6.09	5.93	5.51
TL	0.00	0.00	0.00
Tar	0.00	0.00	0.00
Mid toe	11.62	11.43	10.21
hallux	3.94	3.90	3.64
fat	slight	slight	slight
wt	1.5g	1.0g	1.0g
age	0 days	0 days	0 days
molt	none	none	none
round	none	none	none
leg color	red left leg	Green left leg	Black left leg
	77-96180	77-96181	77-96182

Measuring Miss Wang's territory

nest 1 to 2: 23.1m

nearest neighbor 5.3m





11th, 8  
1991

Journal

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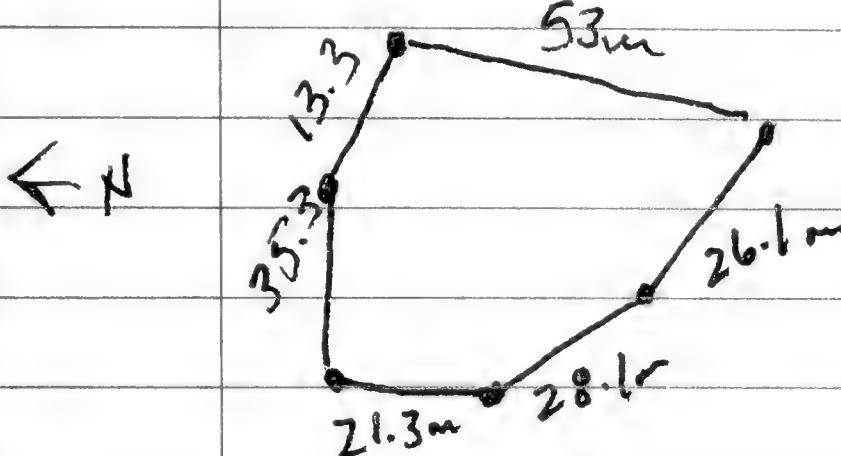
Saxton Creek Field Sta. 3 mi NW Hot Springs, Nevada Co., Calif 630 ft

3 try Miss Wiley's

nearest neighbor nest 53 m

nest 1 to 2 : 70.6 m

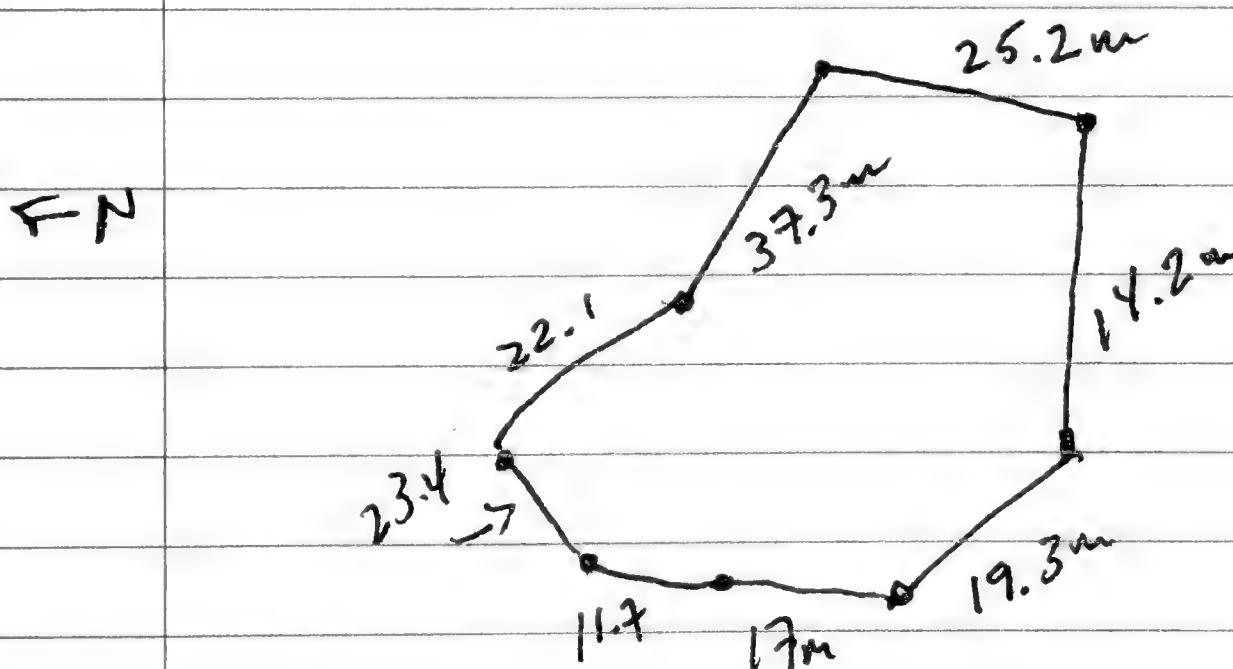
? ♂ 64/6m 58/6m



corner tentily

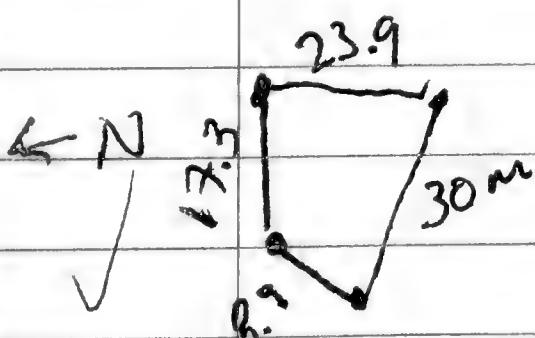
nest 1 to 2 : 26.5 m

nearest neighbor 30.9 m



P<sub>R</sub>/B<sub>R</sub> P<sub>R</sub>/F<sub>R</sub>

nest 1 to 2 : 17.8 m



nearest neighbor 30.9 m

♂? 64 58/6 68/6



Sept. 8  
1991

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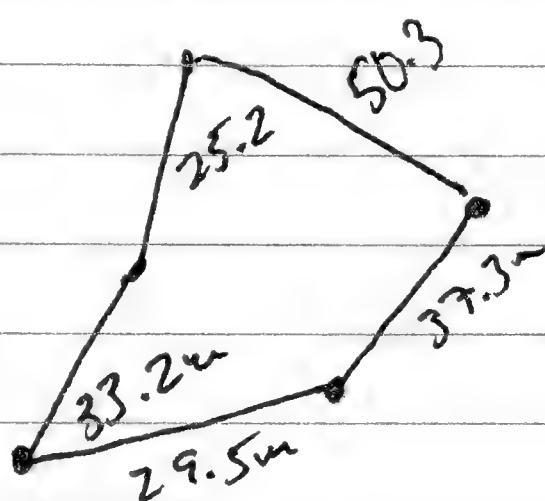
Sagehen Creek Field Sta. 3 mi NW Hobart Mills, Nevada Co., Calif 6300 ft

3 Aug

Upstream from 1 BX FW 6R

76.1 m - nearest neighbor

← N



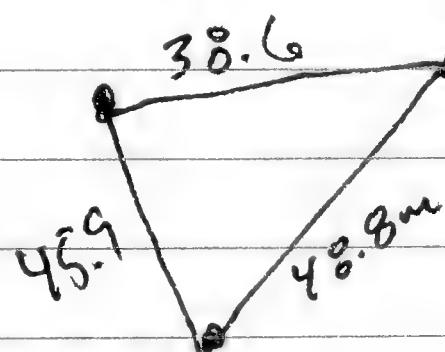
OK/1R FW/6R

next 2 to 3 : 25.1 m

mt 1 to 2 : 20.4 m

nearest neighbor 80.6 m

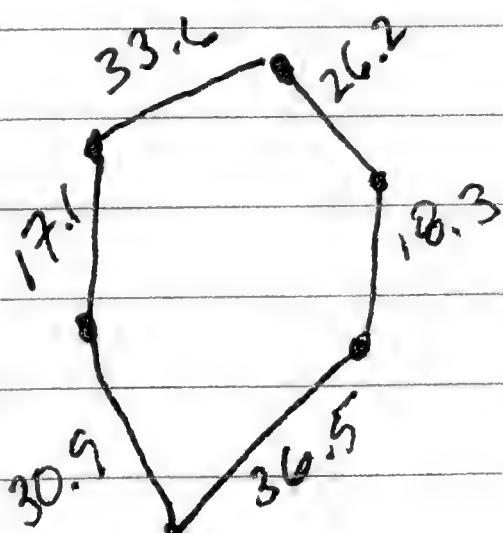
← N



7. 6R 6R  
FW FW

Pearnts'

nearest neighbor 80.6 ~



34.4 m next 1 to 2



Sept 18  
1991

Journal

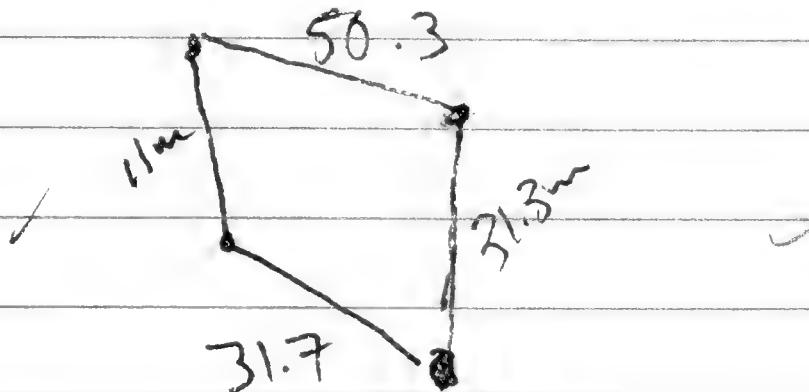
280

Sayre Creek Field Sta., 3 mi NW Hobart Mills, Nevada Co., Calif. 6300ft

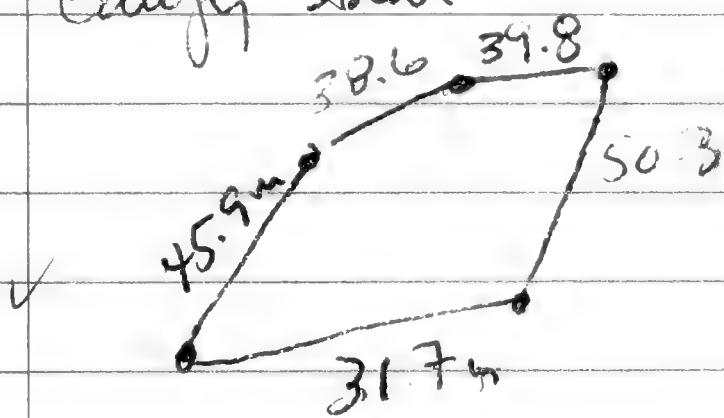
3 Aug Total water louse's

nest 1 to 2 : 19.5 in

nearest neighbor 5.6 m



Gauge station





11/8  
1991

Journal

28/

~~B. G. State Reserve, 5 mi. N Lucia, Monterey Co., Calif. 480 ft.~~

7 Aug

1990 Territory at top of hillside sand

nearest neighbor - 30m

30 x 35 x 30 x 20

nest 1 to 2 - 4m

1990 yellow yellow's w/ her bar

30 x 30 x 30 x 30 nearest neighbor <sup>85</sup> - ~~100~~ m

1990 favorite Burl

22 x 22 x 22 x 22

nest 1 to 3 - 3m

nest 2 to 4 - 10m

nearest neighbor - 25m

above favorite burl

40 x 30 x 40 x 20 nest 1 to 2 15m

nearest neighbor 23m

Redwood tree pair in favorite tree

30 x 22 x 20 x 20

nest 1 to 2 - 12m

nest 2 to 3 7m

nearest neighbor 25m

WHD Research Site

nearest neighbor 28m

18 x 32 x 7 x 28



June 8

1991

## Journal

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Sagehen Creek Field Sta., 3 mi N (1) Hobart Mills, Nevada Co. (cif 6300)

8 August Nest at the corner. 3 babies 5 days old, 1 unhatched egg.

Last measured on 3 August 1991. New female.

	FWS Band Combo	77-96180 FW Blue	77-96181 FW Blue	77-96182 FW Blue	77-96183 white Black Black FW
BL	3.81	3.37	3.70	8.94	
BD	3.02	2.68	2.88	5.95	
BW	3.20	2.87	2.83	4.95	
WL	20.62	16.93	15.41	60.89	
TL	2.57	0.00	0.00	60.95	
Tar	14.59	13.19	14.31	18.88	
Midtac	15.92	14.99	14.12	18.02	
hallux	10.27	8.88	8.65	13.92	
fat	lots	some	some	some	
wt	12.5g.	9.5g	9.0g.	20.0g.	
age	5 days	5 days	5 days	adult	
molt	3rd Prim Tail 0.00 0.00	3rd Prim Tail 0.00 No	3rd Prim Tail 0.00 No	No	No
	9.95 0.91	5.70	5.35		
round	2.22	1.95	2.43	7.80	
blood	0.4 ml buffer to 0.1 ml blood	0.4 ml buffer to 0.1 ml blood	0.4 ml buffer to 0.1 ml blood	0.4 ml buffer to 0.09 ml blood	
leg color	Red left leg	Green left leg	Black left leg		
sex				♀, brood patch	



Sept 8  
1991

Journal

283

~~Sascher Creek Field Sta. 3 mi NW Hopart Mills, Nevada Co., Calif 6300 ft~~

8 August ♀ white <sup>Orange</sup> FW. 1 baby 8 days old. Last measured on  
2 August 1991.

FWS 77-96184

Band Combo FW Orange

BL 4.05

BD 3.15

BW 2.89

WL 27.76

TL 4.34

Tar 18.34

Mid toe 16.66

Hallux 11.27

fat lots

wt. 14 g.

age 8 days

molt 3rd Prim Tail  
0.98 0.00

17.06 2.36

round 3.98

blood 0.4 ml buffer to  
0.1 ml blood



Sept 18  
1991

Journal

284

Sage Creek Field Station, 3 mi NW Hot Spring Mills, Nevada Co. (41636)

9 Aug Measuring transfer w/ pop checks at  
wh/few wh/fw she is nearly ov/fw on/or 1's  
checks 2nd one dried up egg in  
nest

	Red 96189	Green 96190
BL	3.05	2.65
BD	2.51	2.65
BW	2.37	2.23
WL	9.52	8.13
TL	0	0
TAR	0	0
mp	19.20	18.31
hal	5.69	5.37
jet	5 ct	some
wt	5.08	4.50
Age	2	2
nest	—	—
road	none	—
no blood	—	—



Smith J  
1991

Journal

285

Saxhen Creek Field Sta., 3 mi (NW) Hot Spring Mills, Nevada Co. (alt 6300 ft)

TAU Measuring wh wh wh few 's 4 chicks Beg reared  
by OR/FW OR/DR

	96186	96189	96185	77-96187
Red			B1K	Green Right
BL	2.36	2.60	3.02	3.07
BD	2.44	2.65	2.80	2.39
BW	2.77	2.44	2.46	2.75
DL	8.12	7.15	10.10	9.95
TZ	0	0	0	0
TAN	0	0	0	0
Md	18.69	14.66	20.78	20.63
Hd	6.42	5.13	6.43	7.0
fat	some	some	much	much
wt	5.0g	3.0g	6.50	<del>7.0</del> 5.8
wolt	—	—	3rd 1° 0.79	3rd 0.75
poop	—	—	—	—
blood	—	—	—	—
Age	2	2	1	2



Sept 18  
1991

Journal

286

Sagehen Creek Field Station, 3 mi. NW Hobart Mills, Nevada (elevation 6300 ft)

11 August Nest at the corner. ♀ ~~Wk~~ <sup>Wk</sup> ~~BK~~ FW. 3 babies 8 days old.  
Last measured on 8 August 1991.

FWS 77-96181 77-96180 77-96182

Bird (no.)	FW Blue	FW Blue	FW Blue
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BL	3.94	4.30	4.11
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BD	3.24	3.45	2.86
----	------	------	------

BW	2.91	3.29	3.25
----	------	------	------

WL	25.36	30.05	22.10
----	-------	-------	-------

TL	2.72	5.93	2.87
----	------	------	------

Tar	0.00	0.00	0.00
-----	------	------	------

Midtoe	35.12	33.85	31.64
--------	-------	-------	-------

Hallux	10.86	12.04	10.11
--------	-------	-------	-------

fat	some	some	slight
-----	------	------	--------

wt	10.5g	13.5g.	7.5g
----	-------	--------	------

age	8 days	8 days	8 days
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molt	3rd Prim Tail 0.90 0.00	3rd Prim Tail 4.78 0.00	3rd Prim Tail 2.41 0.00
------	----------------------------	----------------------------	----------------------------

	13.41 1.28	20.06 4.01	13.02 1.50
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round	2.44	2.68	2.41
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Smith  
1991

Journal

287

~~Sacramento Creek Field Sta. 3 mi NW Hwy 60 at Mill, Nevada Co., Calif 1300~~

11 August ♀ or Gr nest; 3 babies 4 days old, 1 baby 3 days old

Babies are from ♀ ~~white~~ <sup>white</sup> ~~wh~~ <sup>wh</sup> FW. last measured 9 August 1991.

FWS 77-96185 77-96186 77-96187 77-96188

Bird/Combo	FW white	FW white	FW white	FW <del>white</del>
BL	3.91	3.65	3.72	3.33
BD	3.11	2.76	2.98	2.64
BW	3.21	2.70	2.48	2.46
WL	17.21	14.23	14.82	10.22
TL	0.00	0.00	0.00	0.00
Tar	0.00	0.00	0.00	0.00
Midtac	30.16	28.35	30.16	23.10
hallux	9.97	9.35	9.10	7.45
fat	much	much	much	some
wt	11.0g	9.5g.	9.5g.	6.0g.
age	4 days	4 days	4 days	3 days
molt	3rd Prim Tail 0.00 No 5.29	3rd Prim Tail 0.00 No 3.71	3rd Prim Tail 0.00 No 5.51	3rd Prim Tail 0.00 No 1.34
round	2.80	2.12	2.46	0.98
blood	0.4ml buffer to 0.08ml blood	0.4ml buffer to 0.1ml blood	0.4ml buffer to 0.1ml blood	0.4ml buffer to 0.06ml blood
leg color	Black	Red left leg	Green Right leg	Green left leg



Sept 18  
1991

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Sagehen Creek Field Sta., 3 mi NW Hotfoot Hills, Nevada Co., Calif (3800 ft)

11 August Nest of ♀  $\frac{wh}{wh}$   $\frac{wh}{FW}$ ; 2 babies 4 days old from ♀ or Gr FW

Last measured on 9 August 1991

FWS 77-96189 77-96190

Band (on) FW Green FW Green

BL 3.52 3.41

BD 2.99 3.03

BW 2.79 2.68

WL 15.96 13.63

TL 0.00 0.00

Tar 0.00 0.00

Midtire 28.11 27.53

hallux 8.58 8.61

fat some some

wt 9.5 g. 9.0 g.

age 4 days 4 days

molt 3rd Prim Tail 3rd Prim Tail

0.00 0.00 No No

5.76 4.21

round 1.73 1.28

blood 0.4 ml buffer to 0.4 ml buffer to  
0.1 ml blood 0.095 ml blood

leg color Red left leg Green left leg.



